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PERSONAL.

Mr. C. L. Brinser, of Harrisburg, Pa., has been appointed Superintendent of the Greensburg, Jeanette & Pittsburg Electric St. Ry.

Mr. Frederick J. Mills, C. E., State Engineer of Idaho, has been commissioned First Lieutenant in the Second Regiment of United States Volunteer Engineers.

Mr. H. R. Sanford, Civil Engineer, U. S. Navy, has been detached from the Bureau of Yards and Docks, Washington, D. C., and ordered to the navy yard, Boston, Mass.

Mr. E. Sherman Gould, M. Am. Soc. C. E., has returned to Yonkers, N. Y., from Tampa and Jacksonville, Fla., where he has been for the last two months at Army Headquarters.

Mr. James R. Lawrence has been appointed City Engineer of Greenville, S. C., to succeed Mr. A. W. Edens, resigned. Mr. Lawrence has already held the office several times.

Prof. Harris J. Ryan, M. Am. Soc. M. E., Professor of Electrical Engineering in Sibley College, Cornell University, Ithaca, N. Y., sailed for Europe June 27, accompanied by his wife.

Mr. W. J. Mallor has been appointed Assistant Superintendent of Bridges and Buildings of the Southern Pacific Ry., with headquarters at Algiers, La., to succeed Mr. C. C. Mallard, promoted.

Mr. John Hays Hammond, mining engineer, formerly of South Africa, has been appointed Consulting Engineer to the Russian Government, which is about to develop rich government mines in the Ural Mountains.

Prof. George F. Becker, of the United States Geological Survey, is reported to have been sent by the government to the Philippines to make a general examination of the islands, including their mineral resources.

Mr. George A. Kimball, M. Am. Soc. C. E., member of the Metropolitan Sewerage Commission, Boston, Mass., has been appointed by the city council of Barre, Vt., as a member of the commission to fix the price of the water-works which the city proposes to purchase.

Mr. E. B. Sturges has been elected President of the New York, Wyoming & Western R. R. The other officers are: Mr. L. A. Watres, Vice-President and General Manager; Mr. T. H. Watkins, Treasurer; Mr. Thos. E. Jones, Secretary, and Mr. Edward L. Jenks, Chief Engineer.

Mr. R. P. Bower, City Engineer, of Champaign, Ill., has been appointed Second Lieutenant in the United States Army, his name, it is stated, being one of the three highest on the army register for proficiency in the study of military science at the University of Illinois.

Mr. John Alexander McDonald, M. Inst. C. E., M. Inst. M. E., M. Am. Soc. C. E., Assistant Engineer in Chief of the Public Works Department of Western Australia, in charge of the Fremantle Harbor Works, still continues to hold that office, newspaper reports to the contrary notwithstanding.

Mr. E. D. Dorchester, Secretary and Assistant General Manager of the Velasco Terminal Ry., with headquarters at Velasco, Tex., has been appointed General Manager, to succeed Mr. L. L. Foster, who has resigned to accept the office of President of the Agricultural and Mechanical College of Texas, College Station, Tex.

Mr. Richard P. Rothwell, M. Am. Inst. M. E., M. Am. Soc. C. E., Editor of the "Engineering and Mining Journal" and of "The Mineral Industry," has been awarded a gold medal by the Societe d'Encouragement pour l'Industrie Nationale of France in consideration of the services rendered to industry by the publication of the latter work.

Mr. A. B. Dunning, civil engineer, has been made the Manager of the Dunning Engineering & Construction Co., Scranton, Pa. Mr. O. D. Shepard, civil engineer, of Scranton, and Col. George E. Waring, Jr., M. Inst. C. E., formerly Street Commissioner of New York city, have been appointed consulting engineers to the company. The latter will act as its New York representative.

Mr. N. C. Grover has been appointed Professor of Civil Engineering in the University of Maine, Orono, Me., to succeed Prof. Geo. H. Hamlin, whose resignation is noted in this issue. Mr. C. P. Weston has been appointed Instructor in Civil Engineering, Mr. Ralph Hamlin, Assistant in Civil Engineering, and Mr. R. H. Mansen, Assistant in Electrical Engineering. Lieut. Herbert N. Royden, U. S. Army, Military Professor, has been ordered to duty as aide-de-camp on the staff of Brig.-Gen. Charles P. Mattocks, U. S. Volunteers.

Mr. J. Francis Le Baron, M. Am. Soc. C. E., of Jacksonville, Fla., has been appointed Chief Engineer of the American Honduras Co., and expected to leave for Honduras July 14 to make physical surveys and examination, with plans and estimates, for building jetties at the mouth of the Patuca River, improving it for navigation, building wharves, warehouses and a railway from the head of navigation to the capital. It is expected that construction will commence immediately after the plans and reports are finished. The company has a valuable concession from the Honduras government.

Mr. Robert C. Barnard, Assistant Engineer of the Chicago Division of the Pennsylvania Lines West of Pittsburg, with headquarters at Logansport, Ind., has been appointed Engineer of Maintenance of Way of the Richmond Division, with headquarters at Richmond, Ind., to succeed Mr. Robert K. Brown, Jr., Assoc. M. Am. Soc. C. E., resigned. Mr. Robert Ferriday, of the engineering department of the Erie & Ashtabula Division, with headquarters at Lawrence Junction, Pa., has been appointed to succeed Mr. Barnard at Logansport. Mr. D. B. Johnston, Assistant Engineer, with headquarters at Lawrence Junction, has been appointed Engineer of Maintenance of Way of the Cincinnati & Muskingum Valley Division, an office for some time vacant. Mr. Paul Jones has been appointed Engineer of Maintenance of Way of the Indianapolis & Vincennes Division.

Prof. George Herbert Hamlin, M. Am. Soc. C. E., Professor of Civil Engineering in the University of Maine, Orono, Me., has resigned, to devote himself to his private business. He was born in Sidney, Me., and graduated from the Maine State College, now the University of Maine, in 1873, being appointed Tutor in Civil Engineering. He held various positions in the university until 1880, when he was made Professor of Civil Engineering, and has held it continuously ever since. For a time he was also City Engineer of Bangor, and he has been consulting engineer for various manufacturing companies. Besides being a member of the American Society of Civil Engineers, to which he was elected July 3, 1895, he is also a member of the American Society for the Promotion of Engineering Education and of the Boston Society of Civil Engineers. On June 27 a supper was tendered to him by Dr. A. W. Harris, President of the university, all the faculty participating.

OBITUARY.

Mr. James Devlin, contractor, of Elizabeth, N. J., died July 4, aged 72.

Mr. Henry D. Fisher, contractor, of Reading, Pa., died July 6, aged 66.

Mr. Charles O. Richardson, Treasurer of the Worcester Construction Co., Worcester, Mass., died July 7, aged 65.

Mr. John De Noyelles Christie, civil engineer, Road Engineer of Rockland County, New York, died at his home, Haverstraw, N. Y., July 2, aged 68.

Mr. Louis R. Townsend, architect, of San Francisco, Cal., died July 6, aged 67. He was the senior member of the firm of Townsend & Wyneken.

Mr. Archalous Wyckoff, the inventor of the Wyckoff paving block, extensively used in this country and Canada, died at Elmira, N. Y., July 6, aged 82.

Mr. B. H. Nelson, Water Commissioner of Granville, N. Y., was killed by the caving-in of a trench in that place, July 10, while engaged in inspecting a water main. He was 50 years of age.

Mr. Andrew Brown, bridge contractor, of Baltimore, Md., died July 5, aged 71. At the time of his death he was the President of the Broadway & Locust Point Steam Ferry Co., of Baltimore.

Mr. D. J. Thayer, Vice-President and Secretary of the Fulton County Narrow Gage Ry., with headquarters at Chariton, Ia., died at Mercy Hospital, Burlington, Ia., June 21. Mr. J. D. Temple, formerly Auditor of the same road, died at Des Moines, Ia., June 24.

Mr. Joseph Curtis Platt, M. Am. Soc. C. E., died at Waterford, N. Y., July 7. He was born in Fair Haven, Conn., Jan. 9, 1845, and was graduated as a civil engineer from the Rensselaer Polytechnic Institute, Troy, N. Y., in 1866. He was a consulting engineer, chiefly engaged in water-works design and construction, and was also a Member of the American Institute of Mining Engineers, the American Society of Mechanical Engineers and of the University and Engineers' Club, New York.

Capt. Edward Shanley, of the firm of Shanley & Ryan, contractors, died in New York on July 9. Mr. Shanley was born at Hunter, Greene Co., N. Y., about 64 years ago, and served during the Civil War in the 9th New York Volunteers and attained the rank of Captain. As a contractor he was engaged in bridge work for the West Shore, Erie and Canadian Pacific railways; he also built Sections 22, 23 of the New Croton Aqueduct, and did work for the West Indian Improvement Co. in Jamaica. At the time of his death his firm was building the New York anchorage of the new East River bridge.

Mr. Francisco Javier Cisneros, M. Am. Soc. C. E., Managing Director of the Barranquilla Ry. & Pier Co., with headquarters in London, England, died July 7 of Bright's disease at the Windsor Hotel, New York city. He was born in Santiago de Cuba in 1836, and graduated from the School of Engineering, in Havana, finishing his technical education in the Rensselaer Polytechnic Institute, Troy, N. Y. He was then engaged by an English syndicate to build railways in Cuba, and was one of the promoters of the revolution of 1868, placing his fortune at the disposal of the cause of Cuban freedom. In 1874, having thus impoverished himself, he went to Colombia, where he superintended some important engineering works and again amassed a large fortune. At the outbreak of the present Cuban revolution he again offered his money and services to the Junta, and was in this country at the time of his death on an important secret mission.

Mr. Pedro Jose Sosa, M. Am. Soc. C. E., of Panama, Columbia, was one of the passengers lost on the ill-fated steamship "La Bourgogne," which was sunk in collision, July 4, off Sable Island, Nova Scotia. He was born in Panama, 45 years ago, and graduated from the Rensselaer Polytechnic Institute, Troy, N. Y., in 1873. He returned to his native country and practised his profession in Panama and Guayaquil. In 1879, while he was City Engineer of the former city, De Lesseps made his first visit to the isthmus, and on his return to Paris Mr. Sosa accompanied him as the Colombian delegate to the international congress of engineers, whose report was made the basis of the canal company's plan of operations. The French government made him a Chevalier of the Legion of Honor in 1880, and in 1884 he was elected a member of the American Society of Civil Engineers. He supervised the erection of the lighthouse near Colon, and was Chief Engineer of the Aqueduct at Panama. At the time of the disaster in which he lost his life, he was on his way to Paris to attend a conference of engineers which is to decide whether the completion of the Panama Canal project is practical.

Rear-Admiral Daniel Ammen, U. S. Navy, died at the Naval Hospital, Washington, D. C., July 11. He was born in Brown county, Ohio, May 15, 1820, and entered the U. S. Navy in 1836 as a midshipman. In 1853 he was in charge of a scientific expedition to the Paraguay River on the U. S. S. "Water Witch." During the Civil War he was executive officer of the "Roanoke," and was engaged in the battles of Port Royal and Tybee Island and the attacks against Fort McAllister and Fort Sumter. He was commissioned Commodore April 1, 1872, and Rear-Admiral Dec. 11, 1877, being retired in June of the following year at his own request. He had charge, in 1876, as a member of the Isthmian Canal Commission, of the survey for a canal to connect the Atlantic and Pacific, and endeavored to bring about the construction of the Nicaragua Canal at that time. He was sent to Paris to attend the Interoceanic Ship Canal Congress, which preceded the Panama Canal undertaking. He was the author of a number of naval treatises and the inventor of a number of appliances now used in the navy. In recent years he has been most widely known by his advocacy of the ram in naval warfare, and by the partial adoption of his ideas by the U. S. Navy in the ram "Katahdin." He was led to advocate the ram in naval warfare by the experiences of the Civil War with the "Merrimac" and other rams. His early plans were modified in accordance with the rapid development of warships and armament, and it was not until 1891 that a contract was awarded by the government for a ram upon his designs. The "Katahdin" has never yet had an opportunity to test her equipment in actual combat.

Dr. Cornelius Herz, of Panama Canal notoriety, died at Bournemouth, England, July 6. He was born in Besancon, France, Sept. 3, 1845, and came to the United States with his parents at an early age. He graduated from the College of the City of New York in 1864, and later received the degree of Master of Science from the same institution. He was sent to Heidelberg, Germany, to study medicine, and continued his professional education in Munich, Vienna and Paris. In 1870 he was appointed Assistant Surgeon-General to the Army of the Loire, and for services in the army he was decorated with the Cross of the Legion of Honor. At the end of the Franco-Prussian war he returned to New York and later went to San Francisco, where he soon became a member of the Board of Health. He founded the first electrical works in that city, and in 1877 returned to Paris, where he introduced the electric light, thus overturning the gas monopoly. He founded "La Lumiere Electrique" in that city, now one of the leading electrical journals of the world, and organized the telephone system of France. He was successively raised from the rank of Knight of the Legion of Honor, through the intermediate grades, to Grand Officer. In 1892, when the Panama bubble burst, Dr. Herz was charged with being implicated in the corruption of public officials in connection with that enterprise. He fled to London, where he was arrested on extradition papers, but owing to illness, which confined him to his bed from 1893 to 1896, he was unable to appear in court. On May 2, 1896, the charges against him having been declared to be invalid and unworthy of notice, he was released from custody. His property had been confiscated by the French government, and he demanded of that government as a citizen of the United States the sum of $5,000,000 indemnity. The claim was unsettled at the time of his death.

ENGINEERING SOCIETIES.

COMING TECHNICAL MEETINGS.

AMERICAN SOCIETY OF R. R. SUPERINTENDENTS. July 13-14. Annual meeting, Alexandria Bay, N.Y. Secy., C. A. Hammond, Asbury Park, N. J.

AMERICAN HEATING AND VENTILATING SOCIETY. July 15. Atlantic City, N. J. Secy., S. A. Jellett, 704 Arch St., Philadelphia, Pa.

ENGINEERS' CLUB OF MINNEAPOLIS.
July 18. Secy., H. E. Smith, 1620 S. E. 4th St., Minneapolis, Minn.

ENGINEERS' SOCIETY OF WESTERN PENNSYLVANIA.
July 19. Secy., R. A. Fessenden, 410 Penn Ave., Pittsburg, Pa.

WESTERN FOUNDRYMEN'S ASSOCIATION.
July 20. Secy., B. M. Gardner, 1522 Monadnock Block, Chicago, Ill.

AMERICAN SOCIETY OF CIVIL ENGINEERS.
July 26 to 29. Annual convention at Detroit. Secy., C. W. Hunt, 220 W. 57th St., New York, N. Y.

WESTERN SOCIETY OF ENGINEERS.
Aug. 3. "Establishment of Street Grades," Chas. P. Chase. Secy., N. L. Litten, Monadnock Block, Chicago, Ill.

CIVIL ENGINEERS' CLUB OF CLEVELAND.
Aug 9. Secy., Wm. H. Searles, Case Library Bldg., Cleveland, O.

AMERICAN SOCIETY OF CIVIL ENGINEERS.—The Cleveland, O., members of the society have extended an invitation to the members attending the annual convention at Detroit on July 26 to participate in a special excursion on Lake Erie on July 25, the day before the convention. During the excursion visits will be made to special points of interest in the harbor, including the new piers and the steel crib and water-works tunnel now under construction. The headquarters for the day will be at the Weddell House, from which the excursion will start promptly at 2 o'clock p. m. Members can take either the night boat in the evening or the Lake Shore & Michigan Southern Ry. train in the morning and arrive at Detroit in time for the opening session of the convention.

NEW PUBLICATIONS.

LITERARY MAGAZINES.—Those of our readers whose memories go back to the days of the Civil War will recall the destruction of merchant shipping effected by the Confederate vessels "Tallahassee" and "Florida." The July "Century" contains an account of these two vessels and their eventful voyages written by the commander of the former vessel and by a midshipman aboard the latter. It is interesting to note that the latter vessel relied on sails as well as steam for speed, and her best record in a gale when she was making every effort to escape from a pursuing vessel was 13½ knots.

The "Atlantic Monthly" for July has two articles which deserve mention here, one by Mr. James Bryce on "The Essential Unity of Britain and America," and the other by Mr. Henry C. Lea on "The Decadence of Spain." In the July "Popular Science Monthly," Mr. E. J. Prindle writes on "Weather Forecasts," explaining the methods by which the United States Weather Bureau carries on its work. Many of the instruments used are illustrated and described, and the article is on the whole one of the best popular accounts of the Weather Bureau that we recall.

The "North American Review" opens with "An Object Lesson in Anglo-Saxon Rule: What Britain has done in Egypt," which is appropriate at this time when thoughtful Americans are looking forward to some problems with which this country will soon have to wrestle. "The Resources and Industries of Spain" are described by Mr. E. D. Jones in a short paper, which faithfully presents the barren and impoverished condition of much of that country, and the need of a stable government and popular education to bring about an improvement. In the same magazine is an article by Mr. F. B. Thurber, which appears to be a thinly disguised plea for the rehabilitation of the old Ramapo water scheme, by which a party of capitalists planned to secure a fat contract for furnishing an additional water supply to New York city, to be paid for at so much per gallon. The article does no credit to either Mr. Thurber or the magazine in which it is published. Still another article in the same magazine deserves a word of comment here. It is entitled "International Piracy," and advocates a change in international law under which merchant vessels of an enemy will be safe from capture. There is little doubt that such a change will eventually be brought about. On land the property of a non-combatant is respected in civilized warfare, and there is really little more reason why his property afloat should be confiscated. An article on a similar topic is found in the June "Contemporary Review," in which a writer advocates that the British Government in time of war should undertake to cover maritime war risks on merchant vessels under its flag. The most important article in this magazine, however, is by Dr. E. J. Dillon, entitled "The Ruin of Spain," and it is especially notable because the writer defends Weyler as Spain's ablest and most patriotic general. Dr. Dillon has evidently made a thorough study of Spanish politics, and his view of it is one with which few Americans are familar. The "Fortnightly" for June contains an article on "Cuba and Her Struggle for Freedom," from the pen of our own Fitzhugh Lee, and the "Nineteenth Century" has a description of the methods adopted in fighting the bubonic plague in India, by Miss Marion Hunter.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
July 14.	Fire engine	Cleveland, O.	July 7
July 14.	Water-works, etc.	Batesville, Ark.	July 7
July 14.	Electric light plant	Batesville, Ark.	July 7
July 14.	Broken stone, etc.	New York	July 7
July 14.	Brick paving	Champaign, Ill.	July 7
	Advertised, Engineering News, July 7.		
July 14.	Gas lamps (300)	Ironton, O.	June 16
July 14.	Electric lighting	Ironton, O.	June 16
July 14.	Court house	Savannah, Mo.	June 30
July 14.	Paving, etc.	Augusta, Me.	July 14
July 14.	Bridge	Sandusky, O.	July 14
July 15.	Electric light plant	New Paynesville, Minn.	July 14
July 15.	Lease electric and water plants	Opelousas, La.	July 14
July 15.	Hoist bridge	Middletown, O.	July 14
July 15.	Bridge	Ingersoll, Ont.	July 14
July 15.	School building	Carnegie, Pa.	July 14
July 15.	Lease water-works	Opelousas, La.	July 14
July 15.	Water-works	New Paynesville, Minn.	July 14
July 15.	Water bonds	Concordia, Mo.	July 14
July 15.	Brick paving	Charleston, Ill.	July 14
July 15.	Street bonds	Milwaukee, Wis.	July 14
July 15.	Electric light plant	Wynne, Ark.	June 30
July 15.	Church building	Scottdale, Pa.	June 30
July 15.	Asylum buildings	Huntington, W. Va.	June 30
July 15.	Church building	Wayne, Neb.	June 30
July 15.	Water department supplies	St. Louis, Mo.	June 30
July 15.	Electric plant	Lamar, Colo.	May 5
July 15.	Electric plant	Gaylord, Minn.	June 16
	Advertised, Eng. News, June 16 and 23.		
July 15.	Bridge	Cincinnati, O.	June 23
July 15.	Harbor work	Goderich, Ont.	June 23
July 15.	Post office building	Akron, O	June 23
	Advertised, Eng. News, June 23 and 30.		
July 15.	Railway station	Nashville, Tenn.	July 7
July 15.	Asphalt paving	Newport, R. I.	July 7
July 15.	Wharf, etc.	Halifax, N. S.	July 7
July 15.	Paving, etc.	Iowa City, Ia.	July 7
July 15.	Apartment building	Chicago, Ill.	July 7
July 15.	Brick paving	Binghamton, N. Y.	July 7
July 15.	Retorts	Hamilton, O.	July 7
July 15.	Drain	Coldwater, Mich.	July 7
July 16.	Underground crossing	Kingston, N. Y.	July 7
	Advertised, Eng. News, July 7 and 14.		
July 16.	Dredging, quay, etc.	Brooklyn, N. Y.	July 7
July 16.	Sewers	Washington, D. C.	July 7
	Advertised, Engineering News, July 7.		
July 16.	Bridge	Norwalk, O.	June 23
July 16.	Water pipe	Montgomery, Ala.	June 23
	Advertised, Eng. News, June 23 to July 7.		
July 16.	Brick sewer, etc.	Muscatine, Ia.	June 16
July 16.	County buildings	Beverley, England	June 30
July 16.	Steel bridge	Chillicothe, O.	July 14
July 16.	Sewers	Roanoke, Va.	July 14
July 16.	Sewage disposal beds	Waupaca, Wis.	July 14
July 16.	Macadamizing	Shelby, O.	July 14
July 18.	School building repairs	New York	July 14
July 18.	Iron fence	Pittsburg, Pa.	July 14
July 18.	Pipe sewers	Flint, Mich.	July 14
July 18.	Pipe sewers	Tarentum, Pa.	July 14
July 18.	Pipe sewers	Albany, N. Y.	July 14
July 18.	Steel and cast-iron work	Washington, D.C.	July 14
July 18.	Water bonds	McKinney, Tex.	July 14
July 18.	Water-works	Black Hawk, Colo.	July 14
July 18.	Building	Milwaukee, Wis.	July 14
July 18.	Removing dead animals	Newark, N. J.	July 14
July 18.	Sewers, etc.	Rochester, N. Y.	July 14
July 18.	Macadam road	Norwich, Conn.	July 14
July 18.	Water-works	Beaver, Pa.	July 14
July 18.	Brick paving	Albany, N. Y.	July 14
July 18.	Paving, etc.	Tuckahoe, N. Y.	July 14
	Advertised, Engineering News, July 14.		
July 18.	Asphalt paving, etc.	Reading, Pa.	July 14
July 18.	Paving	Toledo, O.	July 14
July 18.	Grading	St. Paul, Minn.	July 14
July 18.	Iron bridge	Birmingham, Ala.	June 30
July 18.	Grading and paving	Scottdale, Pa.	June 30
	Advertised, Eng. News, June 30 and July 7.		
July 18.	Removing wreck	Philadelphia, Pa.	June 30
July 18.	Weirs road	Laconia, N. H.	June 30
	Advertised, Eng. News, June 30 and July 7.		
July 18.	Street work	Union City, Ind.	June 30
July 18.	Water pipe (3,060 ft.)	Whiting, Ind.	June 30
July 18.	Electric light plant	Fitzgerald, Ga.	June 30
	Advertised, Engineering News, June 30.		
July 18.	Water-works	Fitzgerald, Ga.	June 30
	Advertised, Engineering News, June 30.		
July 18.	Hospital building	Toledo, O.	June 30
July 18.	Street railway franchise	Salinas, Cal.	June 23
July 18.	Steel water tower	San Jose, Cal.	July 7
July 18.	Substructure, etc.	Muskegon, Mich.	July 7
	Advertised, Engineering News, July 7.		
July 18.	Jail building	Woodstock, O.	July 7
July 19.	Water-works	Yale, Mich.	July 7
	Advertised, Engineering News, July 7.		
July 19.	School building	Troy, N. Y.	July 7
July 19.	Dormitory buildings (15)	Sonyea, N. Y.	July 7
July 19.	Reservoir	Delphi, Ind.	July 7
July 19.	Bridge construction	Chillicothe, O.	June 23
	Advertised, Engineering News, June 23.		
July 19.	Granite paving	Rensselaer, N. Y.	June 30
July 19.	Lighting fixtures	Binghamton, N. Y.	June 30
	Advertised, Eng. News, June 30 and July 7.		
July 19.	Sewers	Nevada, Mo.	July 14
July 19.	Sewers	Philadelphia, Pa.	July 14
July 19.	Sewers	Camden, N. J.	July 14
July 19.	Sewerage system	Bellevue, Pa.	July 14
	Advertised, Engineering News, July 14.		
July 19.	Pipe sewers	Milwaukee, Wis.	July 14
July 19.	Brick paving	Troy, N. Y.	July 14
July 19.	Paving	Garrett, Ind.	July 14
July 20.	Paving, etc.	Indianapolis, Ind.	July 14
July 20.	Iron bridge	Algona, Ia.	July 14
July 20.	Building elevator	Baltimore, Md.	July 14
July 20.	School building	Graceville, Minn.	July 14
July 20.	School building	Garland, Utah.	July 14
July 20.	Macadamizing	Windham, Conn.	July 14
July 20.	Brick paving, etc.	Des Moines, Ia.	July 14
July 20.	Pipe sewers	Davenport, Ia.	June 30
July 20.	Bridges, etc. (11)	Chicago, Ill.	June 2
	Advertised, Engineering News, June 2.		
July 20.	Embankment, etc.	Lemont, Ill.	June 2
	Advertised, Engineering News, June 2.		
July 20.	Capitol building plans	Phoenix, Ariz.	June 2
July 20.	Heat regulating system	Athens, O.	June 9
July 20.	Truss bridge	Rumford, Me.	July 7
July 20.	Building elevator	Baltimore, Md.	July 7
July 20.	Heating, etc.	Clinton, Ia.	July 7
July 20.	Water and light bonds	Cass City, Mich.	July 7
July 20.	Paving	Tarentum, Pa.	July 7
July 21.	School building	Dayton, O.	July 7
July 21.	Sewers	Amsterdam, N. Y.	July 7
July 21.	Heating and ventilating	Syracuse, N. Y.	July 14
July 21.	Widening bridge	Paterson, N. J.	July 14
July 21.	Water tower, hydrants, etc.	Chicago Junct'n, O.	July 14
July 21.	School building	Poplar Bluff, Mo.	July 14
July 21.	Sewerage system	Goldsboro, N. C.	July 14
	Advertised, Eng. News, July 7 and 14.		
July 21.	Brick paving	Scranton, Pa.	July 14
July 22.	Street work (1 street)	Duluth, Minn.	July 14
July 22.	Water-works	Cass City, Mich.	July 14
July 22.	Repairing garbage dumper	New York	July 14
July 22.	Electric light plant	Cass City, Mich.	July 14
July 22.	Main brick sewer	Louisville, Ky.	July 14
July 22.	Gravel road	Waterbury, Conn.	July 14
July 22.	Paving	Lima, O.	July 14
July 22.	Paving	Louisville, Ky.	July 14
July 22.	Water-works	Sparta, Minn.	July 7
July 22.	Hydraulic dredge	St. Louis, Mo.	June 23
	Advertised, Eng. News, June 23 to July 14.		
July 22.	Grading, road work, etc.	California, O.	June 30
July 23.	Water-works	Beatrice, Neb.	June 30
July 23.	Cement sidewalks	Washington, D. C.	June 23
	Advertised, Engineering News, June 23.		
July 23.	Paving	Carbondale, Pa.	July 7
	Advertised, Eng. News, July 7 to 21.		
July 23.	Embankment, etc.	Shelton, Wash.	July 14
July 23.	Water pipe	Batavia, Ill.	July 14
July 23.	Iron bridges (4)	Wilkes Barre, Pa.	July 14
	Advertised, Eng. News, July 14 and 21.		
July 23.	Church building	Bay City, Mich.	July 14
July 24.	Bridge work	St. Joseph, Mo.	July 14
July 25.	Church building	Holgate, O.	July 14
July 25.	County building	Chatham, Va.	July 14
July 25.	School building	Spencer, O.	July 14
July 25.	Municipal building, etc.	Stratford, Ont.	July 14
July 25.	Jail, etc.	Ottawa, O.	July 14
July 25.	Heating, etc.	Columbus, Neb.	July 14
July 25.	Sewerage system	Kewanee, Ill.	July 14
	Advertised, Engineering News, July 14.		
July 25.	Retaining wall	Cincinnati, O.	July 14
July 25.	Drainage ditch	Harvel, Ill.	July 14
July 25.	Lighthouse supplies	Tompkinsville, S. I.	July 14
	Advertised, Eng. News, July 14 and 21.		
July 25.	Cement sidewalks	South Bend, Ind.	July 14
July 25.	Grading, paving, etc.	Sullivan, Ind.	July 14
July 25.	Lighting bonds	Lebanon, O.	July 7
July 25.	Asphalt paving	South Bend, Ind.	July 7
July 25.	School buildings	Mansfield, O.	July 7
July 25.	Water-works, Winnipeg, Man.		June 2
	Advertised, Eng. News, June 2 to 23.		
July 25.	Timber, Willetts Point, N. Y.		June 30
July 26.	Electric light plant	Sycamore, O.	June 30
July 26.	Water-works	Sycamore, O.	June 30
July 26.	Electric light plant	Yale, Mich.	July 7
	Advertised, Engineering News, July 7.		
July 26.	School building	Columbus, Neb.	July 14
July 27.	Fire engines, repairs, etc.	New York	July 14
July 27.	Dam, lay'g water pipe, etc.	Huntington, Mass.	July 14
July 27.	Asphalt paving, etc.	Jersey City, N. J.	July 14
July 27.	Heating plant	Madison, Wis.	July 14
July 27.	Church building	Moro, Ore.	July 7
July 27.	Paving	Charleston, Ill.	July 7
July 27.	Water supply	Ridgewood, N. J.	June 23
	Advertised, Engineering News, June 23.		
July 27.	Bridge	Carthage, O.	June 30
July 28.	Masonry work	Louisville, Ky.	June 30
	Advertised, Eng. News, June 30 to July 21.		
July 28.	Water pipe, hydrants, etc.	Renovo, Pa.	July 14
	Advertised, Eng. News, July 14 and 21.		
July 29.	Hospital building	Cleveland, O.	July 14
July 29.	Pike road	Spencer, Ind.	July 14
July 29.	Sluice gates	Cincinnati, O.	July 7
	Advertised, Eng. News, July 7 to 21.		
July 30.	Brick paving	Ashland, O.	July 7
	Advertised, Eng. News, July 7 and 14.		
July 30.	Iron bridge	Cincinnati, O.	July 7
July 30.	Gas and naphtha lighting	Washington, D.C.	July 14
	*Advertised, Engineering News, July 14.		
July 30.	Buildings	Ellis Island, N. Y. H.	July 14
July 30.	Court house and jail	Cando, N. Dak.	July 14
July 30.	School building	Provo City, Utah.	July 14
July 30.	School building	Elbowoods, N. Dak.	July 14
July 30.	Electric lighting	Washington, D. C.	July 14
	Advertised, Engineering News, July 14.		
July 31.	Brick paving	Independence, Kan.	July 14
July 31.	Water supply	Tangier, Morocco.	June 23
Aug. 1.	Electric light plant	Charleston, S. C.	June 30
	Advertised, Eng. News, June 30 to July 21.		
Aug. 1.	Power canal	Ellensburg, Wash.	June 30
Aug. 1.	Bonds ($8,000.)	Ellensburg, Wash.	June 30
Aug. 1.	Jail building plans	Syracuse, N. Y.	July 7
Aug. 1.	Steel bridge	Stockton, Mo.	July 7
Aug. 1.	Iron bridges (3)	Wichita, Kan.	July 7
Aug. 1.	School building	Bloomfield, N. J.	July 14
Aug. 1.	Steel bridge	Lake Belt, Minn.	July 14
Aug. 1.	Pile bridges (3)	Red Cloud, Minn.	July 14
Aug. 1.	Boilers, heaters, etc.	Concord, Mass.	July 14
	Advertised, Engineering News, July 14.		
Aug. 1.	Macadamizing	Toledo, O.	July 14
Aug. 1.	Macadam road	Proviso, Ill.	July 14
Aug. 1.	Paving	Kewanee, Ill.	July 14
Aug. 2.	Bridge	Jackson, Miss.	July 14
Aug. 2.	Steam heating	Hartwell, O.	July 14
Aug. 2.	Pumping station	Albany, N. Y.	July 14
Aug. 2.	Dredging	Lorain, O.	July 14
	Advertised, Eng. News, July 14 and 21.		
Aug. 2.	Bonds	Holly Springs, Miss.	July 7
Aug. 2.	Road work	Anaconda, Mont.	July 7
Aug. 2.	Arc lighting	Lebanon, Pa.	June 30
Aug. 2.	Steel rails	Ottawa, Ont.	June 16
Aug. 3.	Levee work	West Memphis, Ark.	June 30
	Advertised, Eng. News, June 30 to July 28.		
Aug. 3.	Paving, etc.	Cincinnati, O.	July 14
Aug. 3.	Electric light plant	London, Ont.	July 14
	Advertised, Eng. News, July 14 and 21.		
Aug. 5.	Pier	Cleveland, O.	July 14
Aug. 6.	Street work	Mansfield, O.	July 14
Aug. 6.	Dike, York River, Va.		July 7
	Advertised, Eng. News, July 7 to 28.		
Aug. 6.	Dredging, etc.	Virginia.	July 7
	Advertised, Eng. News, July 7 and 14.		
Aug. 8.	Water pipe, etc.	Winnipeg, Man.	June 16
	Advertised, Eng. News, June 16 to 30.		
Aug. 8.	Brick paving	Anderson, Ind.	July 14
Aug. 8.	Repairing asphalt	Cincinnati, O.	July 14
Aug. 9.	Street work	Orrville, O.	July 14
Aug. 9.	Torpedo boats	Washington, D. C.	July 7
Aug. 10.	Bridge bonds	Cincinnati, O.	July 14
Aug. 10.	Bridge masonry work	Norristown, Pa.	July 14
Aug. 10.	Water-works	Pomeroy, O.	July 14
	Advertised, Engineering News, July 14.		
Aug. 10.	Macadamizing	Cincinnati, O.	July 14
Aug. 15.	Exhibition bldg. plans	Glasgow, Scotland.	June 2
Aug. 18.	Water supply	Jersey City, N. J.	July 14
Aug. 20.	Electric lighting	Whitesboro, N. Y.	July 14
	Advertised, Eng. News, July 14 and 21.		
Aug. 23.	Water pipe	Coolgardie, West Australia.	June 2
Aug. 26.	Pumping engines (2)	Minneapolis, Minn.	July 14
Aug. 31.	Custom house	Guayquil, Ecuador.	Apr. 21
Sept. 1.	Battleships (3)	Washington, D. C.	June 23
Sept. 1.	Drainage system	Savannah, Ga.	June 30
	Advertised, Eng. News, June 23 to Aug. 25.		
Sept. 3.	Sewage pumping station	Boston, Mass.	July 7
	Advertised, Eng. News, July 7 and 14.		
Sept. 12.	Hospital plans	San Francisco, Cal.	Mar. 24
Oct. 1.	Monitors (4)	Washington, D. C.	July 7
Oct. 1.	School building (equipment)	St. Thomas, Ont.	July 7
Oct. 24.	Markets, etc.	Belem, Brazil	Apr. 28
Oct. 30.	School building	Chehalis, Wash.	June 16
Dec. 31.	Plans for station, etc.	Stockholm, Sweden.	June 23

RAILWAYS.

ALLEGHENY & WESTERN.—J. M. Floesch, Ch. Engr., Kittanning, Pa., informs us that the construction of this line is now under contract between Lindsey and Butler, 62 miles, as follows: To C. J. Ryan & Son, 43 West 33d St., New York, for 30 miles; to Thomas Collins & Co., of Bellefonte, Pa., 10 miles; to the Pennsylvania Construction & Improvement Co., Curwensville, Pa., for 22 miles. Contracts are be-

ing carried out all along the line, and it is expected to complete the grading by December. Jutte & Foley, of Pittsburg, Pa., have also been awarded the contract for the masonry work and about 9,000 cu. yds. of earthwork for the 1,500-ft. bridge to span the Allegheny River at Moss Grove. The contract for the superstructure of this bridge has not yet been let. A further extension of this railway from Butler to New Castle is contemplated, and it is expected that work will be completed by next June.

ALTOONA & PHILLIPSBURG CONNECTING.—Press reports state that the Harlan & Hollingsworth Co., Wilmington, Del., manufacturers of cars, has filed a bill in equity in the Philadelphia courts against the Altoona & Phillipsburg Connecting R. R. Co. and the Union Trust Co., trustees of the mortgage dated June 1, 1893, on the railway, property and franchises, securing an issue of bonds amounting to $400,000, asking for the foreclosure of the mortgage and the appointment of a receiver. The railroad is 18 miles long, running between Altoona and Phillipsburg, Pa., in the Clearfield coal district. Pres., Henry Levis, Drexel Bldg., Philadelphia, Pa.

ASTORIA & COLUMBIA RIVER.—T. H. Curtis, Ch. Engr., Astoria, Ore., informs us that this line is completed from Goble to Seaside, via Astoria, with a branch at Flavel, Ore., a distance of 81 miles. No extension is proposed. Pres., A. B. Hammond, Astoria.

CHESAPEAKE BEACH.—About 12 miles of grading is said to be completed on this new line between Washington, D. C., and Marlboro, Md., and work is to be carried 18 miles farther on to Chesapeake Beach. Green & Burrows, Atlantic Building, Washington, have the contract for grading. L. H. Hyer, Ch. Engr., Chesapeake Bay Construction Co., 1420 New York Ave., Washington, may be addressed.

CHICAGO TERMINAL TRANSFER.—F. E. Paradis, Ch. Engr., Chicago, Ill., informs us that this company is constructing an extension to its system from Franklin Park to Mayfair, Ill., seven miles. The right of way and the necessary capital has been secured, and grading is completed, having been done by the McArthur Bros. Co., of Chicago. The steel bridge work will be done by the Wisconsin Bridge & Iron Co., Milwaukee, Wis.; and the trestle work by Thomas Phee, of Chicago. Pres., Edward D. Adams, 35 Wall St., New York.

CLEARFIELD SOUTHERN.—This company was incorporated in Pennsylvania, July 6, with a capital stock of $30,000, to construct a steam railway from the mouth of Little Clearfield Creek to Belsena Mills, a distance of 15 miles. The incorporators are, Pres. A. W. Lee, W. B. Townsend, Samuel C. Stewart and Geo. H. Gearhart, all of Clearfield; David McGaughey, Osceola Mills, Pa.

COLOMBIA.—Press reports state that J. Ed. Buckley, 1906 Pacific Ave., Spokane, Wash., contemplates the construction of a narrow-gage railway from the head of navigation on the Magdelena River to Bucaramanga, a distance of about 90 miles. It is said that a 50-lb. rail will be used, and that the maximum cost of construction is estimated at $47,000 a mile. The government has given Mr. Buckley a concession for building the line, with a grant of 150,000 acres of land.

COLUMBIA SOUTHERN.—An extension of this line from Wasco to Klondike, five miles, has recently been completed, and work is in progress on the further construction of the line to Moro, Ore., making a total of 17 miles of new road. Track is expected to be laid to Moro by October 1. Pres., E. E. Lytle; Ch. Engr., E. E. Cooper, both of Wasco, Ore.

DELAWARE.—This company was incorporated in New York July 6 with a capital stock of $200,000, to construct and operate a steam railway from Delhi to Andes and Bovina Center, Delaware county, on the New York, Ontario & Western Ry., a distance of 15 miles. The directors are Herbert Sewell, of Walton, N. Y.; T. E. Hastings and Alexander Wilson, of Bovina Center; James F. Copp and W.C. Oliver, of Andes; S. P. Wilbur, Henry Honeywell, Henry Davies and G. W. Youmans, of Delhi, N. Y.

DULUTH & IRON RANGE.—Grading has been completed on the extension of this line from Waldo, Minn., to the Cloquet River; the laying of five miles of additional spur track is projected. J. L. Greatsinger, Pres. and Gen. Mgr., Duluth, Minn.

EASTERN CAROLINA.—This company has been incorporated in North Carolina, with a capital stock of $100,000, to construct and operate a railway from Tarboro to Crisp, N. C. Among the directors are B. F. Finney, Savannah, Ga.; Jefferson Cobb and Edward Pennington, Tarboro, N. C.

MEXICO.—Reports state that the Mexican government has executed a contract with Sir Weltman Pearson for the construction of harbors at Coatzacoalcos and Salina Cruz, and for the lease of the National Interoceanic Ry., Isthmus of Tehuantepec, which connects these two ports. The main object of these works, which will cost about $7,500,000, is to create a new interoceanic route, which, it is expected, will almost entirely supersede that of the Isthmus of Panama.

MINNEAPOLIS, ST. PAUL & SAULT STE. MARIE.—Thomas Greene, Acting Ch. Engr., Minneapolis, Minn., informs us that this company is at present engaged in grading its extension from Kulm, in La Moure county, to section 9 in the northern part of McIntosh county, N. Dak., where a junction will be formed with the old grade of the Aberdeen, Bismarck & North Western Ry., which was built in 1887 from Aberdeen, S. Dak., to Bismarck, N. Dak., but not ironed; it is now the property of this company. It is also intended to relay about 80 miles of the eastern division in Wisconsin and Michigan, between the station of Pennington and Gladstone, this summer with 72-lb. steel rails. The Kulm extension is to be completed in time to handle this year's harvest.

MINNESOTA, IOWA & GULF.—This company is said to have been incorporated at Des Moines, Ia., to construct a railway through Minnesota, Iowa and Missouri.

MISSISSIPPI, COLESBURG & MANCHESTER.—The Southwest Construction Co., of Kansas City, Mo., is said to have been awarded the contract for the construction of this new line of railway from Dyersville to Colesburg, via New Vienna and Petersburg, Ia. There will be no grade to exceed 1½% and no curves to be more than 4°; 60-lb. steel rails are expected to be used. Secy., W. C. Kirchheck, Colesburg, Ia.

MISSOURI & IOWA SOUTHERN.—J. E. House, Ch. Engr., Omaha, Neb., is said to be making the final survey for this proposed standard gage railway to be built from Sedalia to Miami, via Marshall, a distance of about 50 miles. It is expected to construct the line this year.

MISSOURI RIVER, ALBION & WESTERN.—This company was incorporated in Nebraska, July 12, with a capital stock of $100,000, to construct a line from the eastern boundary of the state at Decatur through Albion, and thence north and west to the South Dakota line.

NAVASOTA & MADISONVILLE.—R. J. Camp, Madisonville, Tex., informs us that the necessary subscriptions have been made for this proposed railway from Keith to Madisonville, via Bedias, Tex., 45 miles. It is now desired that some one will stock and operate the line, or take enough bonds to pay for the construction. This company proposes to build the road bed and lay the ties if the subsequent laying of rails and operation over the route is assured. Pres., J. E. Morris, Madisonville; Ch. Engr., B. F. Goodrich, Houston, Tex.

REIDSVILLE & DORCHESTER.—This company has been organized in Georgia, with a proposed capital stock of $100,000, to construct a railway from Dorchester to Greenville and Reidsville, Ga. Among those interested are George W. Perkins and T. W. Hardwick, of Tennille, Ga.; Henry C. Perkins, Augusta, Ga.; William Rawlings and R. L. Warthen, of Sandersville, Ga., and others. G. W. Perkins, of Tennille, informs us that preliminary surveys have been made over the route, 45 miles, and that the right of way has been donated wherever there is a permanent location. The entire capital has not yet been secured, but it is expected to let contracts as soon as the line is permanently located.

RIO GRANDE WESTERN.—E. J. Yard, Ch. Engr., Salt Lake City, Utah, informs us that Deal Bros. & Mendenhall, of Springville, Utah, have the contract for the building of a spur eight miles long, leaving the main line at Mile Post 138.1. Grading is nearly completed. Pres., W. J. Palmer, 11 Broadway, New York.

ST. FRANCOIS VALLEY.—Louis B Houck, Pres., Cape Girardeau, Mo., informs us that the survey has been made, the right of way obtained and the capital secured for this proposed railway, ten miles in length, to the north of Campbell, Mo. The contract is held by Louis Houck, of Cape Girardeau, and he has already graded about one mile additional road and cleared the right of way. Seven miles of the line was previously built and was known as the "Ward Road." A. R. Ponder, Ch. Engr., Cape Girardeau.

TEXAS CITY TERMINAL.—D. H. Wilson, Supt., Texas City, Tex., informs us that the only improvements being undertaken by this company are the construction of one mile of new track at the Texas City yards, and one-half mile of new sidings.

UNION TERMINAL.—The Union Terminal Association has filed articles of incorporation with the county clerk at Newark, N. J., to have a capital stock of $5,000,000, with $1,000 paid in, to acquire and control the property of the Kansas City & Atlantic R. R. Co., of Missouri; the Terminal Improvement Co., of Kansas City, and the Missouri Agricultural Fair Grounds Association, of Galliton township, Mo. The incorporators named are Jesse R. Salmon and Cortlandt Parker, Jr., of Newark; William H. Lee, Greenwood, Mass.; Vernon O. Taylor, Providence, R. I.; Francis E. Dana, Summit, N. J.; Stephen Salisbury and Theodore C. Bates, Worcester, Mass. Address Cortlandt Parker, Jr., 765 Broad St., Newark, N. J.

WESTERN MARYLAND.—C. O. Vandevanter, Principal Assistant Engr., Baltimore, Md., informs us that the improvements which this company is now making includes the construction of a branch line from Hagerstown to a point near Altenwald, Pa., 5.30 miles, and known as the Hagerstown & State Line R. R.; and the Washington & Franklin branch in Pennsylvania, 9.07 miles in length; work is to be completed by Oct. 1. As stated in a former issue, the contract for the grading, masonry and ballasting is held by J. R. Serpell & Co., of Louisville, Ky. A 17-stall round house is also being erected at Hagerstown, eight stalls of which are to be used as a machine shop; this is under contract to be completed by Aug. 31.

STREET AND ELECTRIC RAILWAYS.

DEDHAM, MASS.—The selectmen have granted a franchise to the Roxbury & Roslindale St. Ry. Co. to lay tracks in this place from Tracy Square to Oakdale Square, one mile.

FRAMINGHAM, MASS.—The Framingham, Southboro & Marlboro St. Ry. Co. has been incorporated, with a capital stock of $120,000, to build an electric street railway from Worcester St. in this place to Marlboro, via Southboro, nine miles. The directors are: S. H. Howe, F. D. Newton, C. B. Sawin, J. R. Entwistle, W. B. Ferguson, C. E. Barnes and G. A. Butman.

NEW BEDFORD, MASS.—The New Bedford, Middleboro & Brocton St. Ry. Co. was granted a hearing by the board of public works, June 30, on its petition for a franchise to build its line in this city. No action was taken on the petition. Abbott P. Smith, Frederick C. Hinds and L. Le B. Holmes represented the company.

WICKFORD, R. I.—The Sea View Electric Ry. Co. is planning to extend its line, which has just been put in operation from Narragansett Pier to Saunderstown and Wickford, according to reports.

BROOKLYN, N. Y.—Frederick Uhlman, Receiver of the Brooklyn Elevated R. R., is reported to be at work upon plans for connecting the Flatbush Ave. line of the road with the Long Island R. R. by a loop, for the purpose of running through trains from City Hall, New York, across the Brooklyn Bridge to Jamaica, L. I.——The Brooklyn Heights R. R. Co. has begun work on changing the motive power of the Sea View Elevated R. R., running from Brighton Beach to West End, Coney Island, from steam to electricity, besides building several hundred feet of bulkhead and filling, at a total cost of about $20,000, according to report.

BUFFALO, N. Y.—The Buffalo Valley R. R. Co. has applied to the railroad commissioners for a charter to build a railway from Java to this city, according to report. ——The Buffalo Ry. Co. has filed plans with the board of public works for enlarged conduits for its wires in Niagara and Pearl Sts.

NEW YORK, N. Y.—The Union Ry. of the Borough of the Bronx is expected to open its branch from Mt. Vernon to New Rochelle Aug. 1.

HADDONFIELD, N. J.—Vice-Chancellor Reed has filed an opinion denying the injunction asked for by citizens of this place to restrain the West Jersey Traction Co. from constructing an electric railway on Main St. E. A. Armstrong and D. J. Pancoast represented the company at the hearing.

ORANGE, N. J.—The Suburban Traction Co.'s property in the Oranges and Bloomfield was purchased at auction sale July 6 by the Orange & Passaic Valley Ry. Co., the incorporation of which was noted in our issue of June 23. Col. Chas. A. Sterling, Pres. of the National Storage Co., represented the latter railway company, which assumes $60,000 in first mortgage bonds and $150,000 bonds held by the Manhattan Trust Co., which it expects to pay in full. The line will be made standard gage and will be improved, and the Bloomfield end extended to Passaic, through Brookdale, with a branch from the latter place to Upper Montclair. Plans have also been filed with the Secretary of State for an extension to South Orange.

PLAINFIELD, N. J.—The common council has refused to grant a franchise to the Plainfield St. Ry. Co. to operate a line on East 2d St. Adrian Riker, Secy. and Treas.

ALLENTOWN, PA.—Work has been begun on the extension of the Allentown & Kutztown Electric Ry., 18 miles long. An extension from this place to Emaus, six miles, is also under construction. It is also said that a line is projected through the cement regions of Lehigh county.

GREENSBURG, PA.—The Greensburg, Jeanette & Pittsburg Electric St. Ry. Co., running from this place to Manor, has been sold to a syndicate of Harrisburg capitalists, of which Benj. Myers and Patrick Russ are the principal members. The company proposes to improve the line and to extend it to Irwin. It will also purchase, according to report, the Greensburg & Hempstead Electric St. Ry., changing it to standard gage and extending it to Mount Pleasant. Supt., C. L. Brinser, Harrisburg, Pa.

HARRISBURG, PA.—The officers of the Cumberland Valley R. R. Co. have purchased a controlling interest in the Harrisburg & Mechanicsburg Electric Ry. Co., and will complete the line from New Cumberland to this city, according to report. Spencer C. Gilbert, Pres.

NEWTOWN, PA.—The Newtown Electric St. Ry. Co. is reported to be making surveys for an extension of its line from this place to Doylestown. There will be a number of overhead crossings of turnpikes and railways and a new bridge will have to be built over Mill Creek. Thos. P. Chambers, Pres.

PHILADELPHIA, PA.—The select and common councils have granted permission to the Union Traction Co. to remove one of its tracks on East Susquehanna Ave. and to lay in its stead a track on East Norris St., from Girard Ave. to East Thompson St., and also to reconstruct its line on Wayne Ave., Germantown. Permission has also been granted by the councils to the same company to extend its tracks and overhead system on Hunting Park Ave. from its present terminus to Old York Road, amending an ordinance of Feb. 25. Geo. D. Widener, Pres.

PORT CARBON, PA.—The Port Carbon & Middleport Electric Ry. Co. has been incorporated, with $100,000 capital, to build an electric street railway from this city to Middleport, seven miles. John A. Pattee, Pres.; R. S. Martin, Claude S. Jarvis, John D. Rishel and Henry E. Thale are the incorporators, all of Philadelphia.

WILMINGTON, DEL.—The street and sewer department has granted franchises to the Wilmington City Ry. to build new lines on Walnut St., from Front St. to East 8th St., and to build a line on Vandever Ave., from Claymont to Market St.——The Wilmington & Chester Traction Co. is now building its line between these cities. Pres., Clarence M. Clark.

WASHINGTON, D. C.—The Washington & University R. R. Co. has been incorporated to build a street railway in this city.

PETERSBURG, VA.—The Piedmont Traction Co. has asked for a franhcise to build an electric street railway in this city, six miles in length. T. O. Troy, Pres.

BIRMINGHAM, ALA.—The Birmingham Traction Co. is reported to have been granted a franchise to build its electric railway system in this city.

AKRON, O.—The Cleveland & Eastern R. R. Co. is about to apply to the county commissioners for a franchise to extend its line to this city, according to report.

SPRINGFIELD, O.—The Springfield Ry. Co. is considering the building of an extension to its electric railway from this city to Yellow Springs, according to report. S. L. Nelson, Mgr.

TOLEDO, O.—Dr. Smith, of Adrian, Mich., is reported to be interested in building an electric railway from Lyons to this city, via Sylvania, 28 miles.

BERRIEN SPRINGS, MICH.—The village council is reported to have granted a franchise to a party of South Bend, Ind., capitalists, to build an electric line from the latter city to Benton Harbor, via Berrien Springs.

DETROIT, MICH.—The Grand River Electric R. R. has begun operation between this city and Sand Hill. Seymour Brownell, Consult. Engr.

GRAND RAPIDS, MICH.—It is reported that the Grand Rapids & Lake Michigan Electric R. R. Co. will apply to the common council for a franchise to build its line from this city to Grand Rapids, 35 miles. The company has $500,000 capital stock, and the promoters are: Alex. E. Riopelle and Robert Hanneman, of Detroit, Mich.; Wm. J. Hess, Grand Rapids.

LANSING, MICH.—Surveys are being made for the Lansing, Dexter & Ann Arbor Electric Ry. Secy. Taylor may be addressed.

MOUNT CLEMENS, MICH.—The city council has granted a franchise to the Rapid Ry. Co. to lay tracks in this city, and to the Detroit, Lake Shore & Mount Clemens Ry. Co. to extend its tracks on East St. to Avery Square, according to reports.

EDWARDSVILLE, ILL.—The Mississippi Valley R. R. Co. has been incorporated to build an electric railway from St. Louis to Alton, through this city. The officers are: C. E. Carroll, Pres., St. Louis, Mo.; J. A. Mehling, Vice-Pres., Cleveland, O.; A. Holthaus, Secy. and Treas., St Louis, Mo.

HOWARD, ILL.—The common council has granted an extension of the franchise for the proposed electric railway to Geneva Lake until Sept. 1, 1899, the town board of Walworth having extended it until the same date. H. T. Windsor, Chicago, may be addressed for particulars.

OREGON, ILL.—The entire issue of $500,000 bonds for the Rock River Electric Ry. is reported to have been taken by Hirsch Bros, New York, and the Western Trust Co., Chicago. Construction will begin as soon as contracts have been let and the necessary water power, which is located at this place, has been purchased. Pres., E. M. Hopkins, Chicago.

DULUTH, MINN.—Luther Mendenhall, President of the Duluth St. Ry. Co., has been appointed its receiver, on application of Thomas Lowry, Minneapolis, who holds a judgment for $1,988 against the company.

WINONA, MINN.—The Winona Ry. & Light Co. has asked permission of the city council to relay its tracks at the east end of the city through a better residential district.

HAVELOCK, NEB.—The council has decided to submit the proposition on permitting the Lincoln Traction Co. to extend its lines to this city, to the vote of the people, according to report. Supt. Humpe may be addressed.

KANSAS CITY, MO.—The Central Electric Ry. Co. has been incorporated with $1,000,000 capital, to build and operate street railways in this and adjoining cities, to be operated by electricity, cable or other motive power. The incorporators are Wm. M. Reid, E. S. Yeomans, E. G. Vaughan, Frank S. Groves and Wm. C. Scarritt, of this city; S. M. Jarvis and Roland R. Conklin, New York. The company will begin construction of lines running from Kansas City, Kan.; Argentine, Armourdale, Westport, Washington Park and Fairmount Park, using the underground Budapest system, for which three large power houses will be constructed.——The Metropolitan St. Ry. Co. will commence immediately the construction of the Broadway electric line from 6th and Delaware Sts. to 17th St. and Madison Ave. Engineer, E. Butts.

ST. LOUIS, MO.—The St. Louis & Belleville Electric Ry. Co. has filed a mortgage for $500,000 with the Mississippi Valley Trust Co. of this city to secure bonds which will be used to complete the construction and equipment of its road, according to report.

OAKDALE, CAL.—The Oakdale Transit Co. has applied for a franchise to build an extension to its lines on 12th St., from Broadway to Oak St., and thence to 11th St.

SAN BERNARDINO, CAL.—J. H. Boyd is reported to be interested in the construction of an electric railway from this city to Redlands.

ELECTRIC LIGHT AND POWER.

DEERING, ME.—The Deering Electric Light Co. has been awarded the contract for furnishing 273 25-c. p. incandescent lights for one, three or five years, beginning Oct. 1.

WATERBURY, VT.—W. P. Dillingham, of Waterbury; Mr. Briggs, of Brandon, Vt., and three engineers, have made surveys and a report for the National Life Insurance Co. of the proposed plant at Bolton Falls for the Bolton Falls Power Co. The insurance company, it is stated, has been asked to advance money for the construction; estimated cost, $75,000.

CONCORD, MASS.—Bids are asked until Aug. 1 for furnishing and installing two boilers, a feed pump, condenser, two heaters, etc., for the electric light plant, as stated in our advertising columns. Engrs., Stone & Webster, 4 Post Office Square, Boston, Mass.; Chn. Com., R. F. Barrett.——A press report states that at a town meeting July 9 it was voted to appropriate an additional $15,000 to the $35,000 already appropriated for the plant. The additional sum is required for placing 3½ miles of wire under ground.

GLOUCESTER, MASS.—Frank E. Davis, Mayor, writes us that nothing will be done this year in regard to the proposed plant.

MANSFIELD, MASS.—Chas. C. Hagerty, Clk., writes us that it is not likely that the water supply district will vote to accept the act authorizing it to establish a plant for electric lighting.

WOBURN, MASS.—The Woburn Light, Heat & Power Co. has let the contract for furnishing three 400-HP. direct-connected, cross-compound condensing engines for its plant to the Blake Engine Co., Warren, Mass. The company, it is stated, will let other contracts this week.

BUFFALO, N. Y.—Preparations are being made to erect a terminal station for the Cataract Power & Conduit Co., it to be located a short distance north of the Bullymore malthouse, in Niagara St. The new malthouse in course of construction by the Curtiss estate will probably use power distributed from the new terminal station. Consult. and Des. Engrs., Hand & Greenburg and Carlton & Meadows, Buffalo; Gen. Mgr., Chas. R. Huntley.

COXSACKIE, N. Y.—A. E. Rowell, Village Pres., writes us that the contract for furnishing and constructing the proposed plant is probably already let. The poles are now being delivered. The plant will be owned by the J. G. Newbury Co.

SPENCER, N. Y.—T. C. Washburn, Village Pres., writes us that all contracts for furnishing and building the plant to be owned by S. A. Seely have been let. The plant will have a capacity for one or two arc and 40 32-c. p. incandescent lights. Des. Engr., Maurice Moon.

SYRACUSE, N. Y.—The question of erecting ornamental electric light poles on Salina and certain other streets is being considered, according to local papers.

WHITESBORO, N. Y.—Bids are asked until Aug. 20 for lighting this village with about 30 2,000-c.p. arc lights for a term of five or more years, as stated in our advertising columns. Engr., W. G. Stone, Utica, N. Y.; Clk., G. A. Kirkland.

JERSEY CITY, N. J.—The People's Light & Power Co. is erecting a new boiler house in connection with its electric plant. It is 60 ft. wide and about 90 ft. long, contains space for large upright boilers, and has an arrangement for the storage of coal in the steel bunker inside the building, so that the fuel can be easily taken direct to the boilers. The tracks are arranged so that railway cars will run into the building, and discharge the coal directly into the bunker. It is of fireproof construction throughout, with steel frame, brick side walls, and iron roof covering, well lighted and ventilated. The steel work is being furnished and erected by the Berlin Iron Bridge Co., of East Berlin, Conn. Sandford & Stillman, of Jersey City, have the contract for the building.

PHILADELPHIA, PA.—The D'Olier Electric Co., 129 South 11th St., Philadelphia, has been awarded the contract at $9,319 for furnishing and placing the tubing, electric wires, etc., in the new Central high school building. The contract for the plant was let July 11 to Walker & Kepler, 531 Chestnut St., at $26,780.

WILLIAMSPORT, PA.—The city clerk writes us that nothing new has developed in regard to putting in a plant.

WASHINGTON, D. C.—Bids are asked by the district commissioners until July 30 for lighting the streets with incandescent and electric arc lights for the year ending June 30, 1899, as stated in our advertising columns.

WILLIAMSPORT, MD.—M. Emmett Cullen, Town Treas., writes us that the burgess named one set of supervisors to execute the act authorizing the town to erect a plant and issue $20,000 in bonds for the same. The supervisors were not confirmed, and the burgess has so far failed to nominate others or say when he intends to do so.

DARLINGTON, N. C.—The Charlotte Electrical Engineering & Supply Co., Charlotte, N. C., has been awarded the contract for furnishing and putting in a plant for the Darlington Mfg. Co.

LAFAYETTE, ALA.—We are informed that bids are wanted by the city at any time for furnishing and constructing a plant. It will have a capacity for 25 2,000-c. p. arc and 800 incandescent lights; estimated cost, $10,000. Charles Schurzsler may be addressed.

UNION SPRINGS, ALA.—P. L. Cowan, Clk., writes us that we made a mistake in our issue of June 30 in stating that the city had not sold $20,000 in bonds for the proposed plant. The town issued $10,000 in bonds several months ago, and were sold the latter part of May to D. M. Farsen, Chicago. Mayor, A. D. Fielder.

OPELOUSAS, LA.—Bids are asked until July 15 for leasing the plant and water-works about constructed. The lessor is to supply the city with 40 arc and four incandescent lights free of charge. Thos. H. Lewis, Jr., Cy. Clk

COVINGTON, KY.—The aldermen are considering the question of authorizing the city clerk to ask for bids at once for lighting that portion of the city which is not lighted with gasoline. Bids will be wanted for electric, gas and gasoline lighting. The present contract for the gasoline lighting expires in September.

TOLEDO, O.—H. E. Marion writes us that the Toledo Heating & Lighting Co., just incorporated, is the successor to the Home Heating & Lighting Co. The old plant will be operated for the present, and it is not probable that a new plant will be erected this season. Gen. Mgr., H. J. Yaryan.

BELLAIRE, MICH.—C. S. Gulle, Pres., writes us that the town is not yet ready to take action with regard to putting in a plant.

CASS CITY, MICH.—Bids are asked until July 22 for furnishing and constructing a plant and water-works. Engr., Geo. C. Morgan, 808 Royal Insurance Bldg., Chicago, Ill.; H. W. Seed.

DECATUR, MICH.—E. J. Rawson, Clk., writes us that bids will be wanted the latter part of July for furnishing and constructing a plant to cost $6,000. Plans have not yet been prepared.

HOLLAND, MICH.—It is reported that this place will extend the plant, at a cost of about $3,361. Supt., F. W. Fairfield.

SAULT STE. MARIE, MICH.—Local papers state that Mason, Hoge & Co., Chicago, Ill., and Erskine D. Smith & Co., Philadelphia, Pa., submitted the lowest bids July 1 for constructing the power canal for the American Lake Superior Water Power Co., advertised in Engineering News. The bids on the intake are said to have ranged from $75,000 to $350,000. The entire work will cost from $1,275,000 to $2,000,000. The canal is to be completed by Jan. 1, 1900. Ch. Engr., H. von Schon, Sault Ste. Marie.

BELOIT, WIS.—The Beloit Electric Light & Power Co. has purchased the old Rock River Paper Mill property, and will change the property into an electric light and power plant. The purchase carries with it a valuable water power. The electric company will spend $25,000 in improvements, according to reports. G. L. Cole, Vice-Pres. and Purchasing Agent.

SUPERIOR, WIS.—It is stated that the Great Northern elevators are to be equipped with electricity instead of steam. Ground has already been broken for the engine house, to be 84 × 64, and for the boiler house, to be 77 × 44 ft.

DULUTH, MINN.—Press reports state that the council light committee will probably have a proposition for submission in regard to the question of electric lights. The contract under which the lighting is now done expired last month, but lights are being continued under it. It is probable that the $50,000 paid yearly for lights will be cut in two by the committee and that naphtha lamps will be used in the suburbs, instead of arc lights as now. The city will make a contract for what electric lights it will be willing to take for one year, and before its expiration will have decided what it wants to do, and construct its own plant. Several other systems of lighting other than electricity are being considered, but whatever system is put in the municipality will be in control and ownership.

NEW PAYNESVILLE, MINN.—Bids are asked until July 15 for furnishing and constructing the proposed plant and water-works, according to reports. Engrs., Fairbanks, Morse & Co., St. Paul, Minn.

TOPEKA, KAN.—The executive council is considering the question of putting in a plant at the state house.

AURORA, NEB.—The question of building a plant is being considered, according to reports.

LITTLE ROCK, ARK.—Geo. C. Strong, formerly of Peoria, Ill., submitted a proposition to the board of trade July 1 for developing the water power of the Quachita River. Plans are being prepared by Geo. M. French, Hot Springs, Ark., for a dam and plant on this river. The dam will be 1,100 ft. long and 15 ft. high, and is estimated to cost about $70,000. Surveys for a plant at Rockfort have also been made by Chas. G. Woodbury. M. M. Cohn, Pres. Bd. of Trade; Geo. G. Harkness, Secy.

LAFAYETTE, COLO.—Press reports state that the Rocky Mountain Power Co., recently incorporated, will build a plant in this town to furnish light and power in the mining camps in this vicinity. Over 2,000 HP. will be developed. Estimated cost, about $2,500,000. Capital stock, $500,000. Chas. T. Brown, attorney for the Northern Coal Co., is interested.

DAVENPORT, WASH.—It is stated that Councilman David Wilson has submitted a proposition to put in a plant with a capacity for 20 arc and 600 incandescent lights.

LONDON, ONT.—Bids are asked until Aug. 3 for furnishing and constructing a plant, as stated in our advertising columns. Samuel Stevely, Acting Chn.; Ormsby Graydon, Cy. Engr.

MONTREAL, QUE.—Plans for a water power plant have been made public here by the Shawinigan Water & Power Co., of Montreal, which company has bought from the government all the water power rights at Shawinigan Falls, on the St. Maurice River, Que. There is at this point a natural fall of 165 ft. The company proposes immediately to install a plant which will develop about 100,000 HP., according to reports.

NEW COMPANIES.—Paris Light & Power Co., Paris, Tex.; $60,000; T. J. Record, J. A. Porter, D. H. Scott, J. D. Crook, B. J. Baldwin, Jr., Paris

Michigan Lake Superior Power Co., Sault Ste. Marie, Mich.; $500,000; to excavate, construct and maintain water courses, with water power appurtenances thereto, etc.; Francis H. Clergue, Sault Ste. Marie; E. V. Douglas, Walter P. Douglas, F. S. Lewis, Philadelphia; Lynde Harrison, New Haven, Conn.

Oakwood Water & Light Co., Van Buren township, Montgomery county, Oakwood, O.; $10,000; H. E. Talbott, D. A. Bichelberger, R. T. Houk, Hugo Cook and D. G. Porter.

Manning Signal Light Co., Des Moines, Ia.; $100,000; Edward S. Manning, H. J. Mills, Samuel Compton, C. A. Bishop, W. D. Sheehan.

Toledo Heating & Lighting Co., Toledo, O.; $125,000; H. T. Yaryan, H. E. Marion, Irving B. Hiett, T. W. Childs, R. R. Lee, Geo. H. Beckwith.

BRIDGES.

NEW HAVEN, CONN.—The board of aldermen have authorized the issue of $290,000 in bonds for the construction of bridges. The committee has recommended that bridges be built at Chapel St., over Mill River, to cost $150,000, at Derby Ave., cost $20,000, and Willow St., cost $10,000.

ROCHESTER, N. Y.—The following bids were received July 5 for constructing a lift bridge over the canal at Fitzhugh St.:

Rochester Bdg. & Iorn Wks., Rochester (accepted)	$23,932
Havana Bridge Works, Montour Falls, N. Y.	24,227
King Bridge Co., Cleveland, O.	27,653

GARFIELD, N. J.—The freeholders of Bergen and Passaic counties have awarded a contract to Frank R. Long & Co., at $28,950, for constructing a bridge over the river at this place.

JERSEY CITY, N. J.— Maguire & Hall have been awarded a contract for the construction of the viaduct on the Hudson County Boulevard. The bids were $62,025 with superstructure of through span, $48,755 without superstructure of through span. E. W. Harrison, Ch. Engr. Bd. Freeholders, Fuller Bldg.

PATERSON, N. J.—Bids are asked by the park commission until July 21 for widening the bridge at West Side Park, to cost about $1,000.

NORRISTOWN, PA.—Bids are asked until Aug. 10 for constructing the masonry work on three bridges. D. H. Hitner, County Clk.; A. W. Carson, Engr.

WILKES-BARRE, PA.—Bids are asked until July 23 for constructing four iron bridges, as stated in our advertising columns. Joseph D. Lloyd, Controller.——We are informed that bids are also asked until the same date for the construction of 48 stone arch bridges, ranging in cost from $125 to $1,200 each. Appropriation, $19,335. C. H. Phillips, County Clk.

JACKSON, MISS.—Bids are asked until Aug. 2 for constructing a steel truss bridge 100 ft. wide and 86 ft. long, on masonry abutments, and for removing the old iron structure; also for a brick or Melan arch bridge. The plans for the Melan bridge were prepared by the Melan Arch Construction Co., 35 Nassau St., New York. Walter G. Kirkpatrick, Cy. Engr.

CINCINNATI, O.—Bids are asked until Aug. 10 for the purchase of $107,000 of bridge bonds, according to reports. Fred. Bader, Pres. County Comrs.

MIDDLETOWN, O.—Bids are asked until July 15 for constructing an iron hoist bridge over the canal at 3d St. Frank X. Duerr, County Audr., Hamilton.

SANDUSKY, O.—Bids are asked until July 14 for constructing a steel plate girder bridge, 53 ft. × 20 ft., with a capacity of 200 lbs. per sq. ft. A. W. Miller, Cy. Clk.

CHILLICOTHE, ILL.—Bids are asked until July 16 for constructing a three-span low truss steel bridge over the East Branch of the Illinois River. Chas. Dougherty, Chn. Com.

URBANA, ILL.—The county commissioners have awarded the following contracts for constructing highway bridges: 30-ft. span, Austin Mfg. Co., Chicago, Ill., $553; 34-ft. span, Central Bridge Co., St. Louis, Mo., $550; 40-ft. span, Canton Bridge Co., Canton, O., $670; 50-ft. span, $2,190; 70-ft. span, $1,180; 64-ft. span, Massillon Bridge Co., Massillon, O., $1,212; 90-ft. span, $2,032.

LAKE BELT, MINN.—Bids are asked until Aug. 1 for constructing a steel bridge over Ten Mile Creek. E. J. Wiltse, Town Clk.

RED CLOUD, NEB.—Bids are asked until Aug. 1 for constructing three 24-ft. pile bridges. J. P. Hale, County Clk.

ALGONA, IA.—Bids are asked until July 20 for the construction of an iron bridge 130 ft. long and 18 ft. wide, according to reports. F. O. Calkins, County Audr.

GALENA, KAN.—F. L. Moore, Carthage, Mo., informs us that the Southwest Missouri Electric Ry. Co. has been considering the question of constructing a bridge over Short Creek at this place, but nothing definite has been decided.

ST. JOSEPH, MO.—Bids are asked until July 24 for constructing and repairing eight bridges. Theo. Steinacker, County Surveyor.

INGERSOLL, ONT.—Bids are asked until July 15 for furnishing the plans and for the construction of a 100-ft. span iron or wood bridge over the Thames River.

PETERSBOROUGH, ONT.—S. R. Armstrong informs us that a by-law has been passed authorizing the borrowing of $7,000 for the construction of bridges over the creek through this town. S. Belcher, Cy. Engr.

BUILDINGS.

BRIDGEPORT, CONN.—It is reported that plans have been prepared for a church and an 8-room parsonage building for the Church of St. Stephen. Pastor, George Csaba, 126 Hancock Ave., Bridgeport; Arch., Edmund Gallauner, 1 Madison Ave., New York.

WINSTED, CONN.—Decker & St. Clair, Seabright, N. J., have been awarded the general contract for the erection of new church and chapel buildings for the Second Congregation Church of West Winsted, at Main and Spencer Sts., Winsted; estimated cost, $35,000. Pastor, N. M. Calhoun; Arch., A. B. Jennings, 41 Wall St., New York.

BUFFALO, N. Y.—Henry Schaefer's Sons have been awarded the contract for the erection of the new buildings for the St. Vincent Orphan Asylum, to cost about $85,000. Archs., Green & Wicks, 110 Franklin St.——Plans are to be prepared for a brick annex to school building No. 25.

ELLIS ISLAND, N. Y. H.—Bids are asked by the supervising architect, Washington, D. C., until July 30, for the masonry, carpentry and structural iron work required in the construction of the main buildings of the U. S. immigrant station, on Ellis Island, New York Harbor. Archs, Boring & Tilton, 32 Broadway, New York.

HUNTINGTON, N. Y.—August Heckscher, of Tuxedo Park, N. Y., has bought the Belknap property at this place, according to reports, and contemplates the making of improvements at a cost of about $45,000, including a new $10,000 barn. Arch., Montrose W. Montrose, 45 Exchange Place, N. Y.

NEW YORK, N. Y.—Bids are being received, according to reports, for erecting a 4-story and basement residence, 25 × 100 ft., for E. B. Grigsby, at Park Ave. and 67th St. Archs., Cable & Lucas, 1183 Broadway.——The general contract for the erection of a new 5-story brick and stone building, 80 × 76 ft., at Rivington and Eldridge Sts., for the University Settlement Society, has been awarded to John Weber & Sons, 12 East 23d St., to cost about $90,000. ——The Collier-Weeks Co. were the lowest bidders for erecting the new fire department building at Broome and Elizabeth Sts., at $24,094.——It is said that an appropriation of $50,000 has been made by Congress to provide for the making of some improvements at the Appraiser's Stores Building, including a pneumatic tube system and a telephone system.——Plans have been filed by the City & Suburban Homes Co., 281 4th Ave., for two 6-story brick flat and store buildings on 1st Ave., near 64th St., to cost $150,000. Archs., J. E. Ware & Son, 487 5th Ave.; by W. P. Reden, 17 East 99th St., for six 5-story brick flat and store buildings at 90th St. and 1st Ave., to cost $178,000. Arch., Louis Entzer, 78 East 96th St.; by William H. Hall, 265 West 73d St., for four 5-story brick flat buildings on 131st St., near Lenox Ave., to cost $92,000. Archs., Neville & Bagge, 217 West 125th St.

NEW YORK, N. Y.—Bids are asked by the board of education, at 585 Broadway, until July 18, for heating and ventilating apparatus for new Public School 153, Bronx; also for heating and ventilating apparatus and electric lighting plant for new Public School 158, Manhattan; also for heating and ventilating apparatus and electric lighting plant for new Public School 160, Manhattan; also for furniture for new Public School 63, Bronx; also for furniture for new Public School 102, Bronx; also for alterations, repairs, etc., at Public Schools 96 and 135, Manhattan.——Plans have been filed by Charles Buek, 109 West 42d St., for four 4-story brick dwellings on 107th St., near Riverside Drive, to cost, $120,000. Arch., Charles Brendon, 264 Columbus Ave.

ORIENT, N. Y.—The contract for constructing ten buildings at Plum Island, N. Y., has been awarded to O. T. Curtis, New Britain, Conn., at $44,473. The contract for heating and plumbing was awarded to the Wheaton Bldg. & Lumber Co., Putnam, Conn.

SYRACUSE, N. Y.—Bids are asked by the board of education until July 21 for heating and ventilating Jefferson school building. Clk., P. D. Cooney.

ASBURY PARK, N. J.—Plans are being prepared for new stone church and parsonage buildings for the First Methodist Episcopal Church, to cost about $75,000. Arch., George W. Kramer & Co., 1 Madison Ave., New York.

BLOOMFIELD, N. J.—Bids are asked until Aug. 1 for the erection of the Essex Ave. school building. George W. Pantcoast, Chn. Bldg. Com.; Arch., Chas. G. Jones, 280 Broadway, New York. Address Wm. A. Baldwin, District Clk., Bloomfield.

BRIDGETON, N. J.—Bids are asked until July 15 for repairing and refitting the City Hall, and for installing a heating apparatus therein. Joseph H. Powell, Chn. Com., 48 East Commerce St., Bridgeton.

ALLEGHENY, PA.—The contract for erecting the new 3d Ward school building has been awarded to R. M. E. Cain & Son, at $169,700.

CARNEGIE, PA.—Bids are asked until July 15 for the erection of a new high school building. D. C. Turney, Secy. School Board; F. J. Osterling, Arch., Times Bldg., Pittsburg, Pa.

PHILADELPHIA, PA.—The council has appropriated $900,000 for school purposes, $375,000 of which is for the completion of the boys' high school building, and the remaining $525,000 for the erection of district school buildings.——Bennett & Rothrock have been awarded the contract for erecting a new church building for the Allegheny Ave. Baptist Church at Allegheny Ave. and Frankfort St., to cost about $30,000. Archs., Stearns & Castor, Philadelphia Bourse.

POTTSVILE, PA.—The following bids were received by the supervising architect July 9 for the construction (except heating and ventilating apparatus) of the Post Office Building at Pottsville:

Prescott, Bukley & Callanan, Albany, N.Y.	$32,440	8 mos.
H. M. Moyer, Pottsville	37,492	9 "
Barry D. Lane, Chester, Pa.	45,000	10 "
Louis D. Beaman, Cincinnati, O.	44,697	10 "
Miles & Bradt, Atlanta, Ga.	37,000	10 "
L. L. Leack & Son, Chicago, Ill.	36,943	10 "
P. J. Carlin & Co., Brooklyn, N. Y.	39,144	10 "
Henry Schenk, Erie, Pa.	42,967	
A. Frederick & Son, Rochester, N. Y.	34,977	Mar 12
Wm. Yost & Bro., Washington, D. C.	49,191	9 mos.
Herman Riebs, Lansford, Pa.	35,000	5 "
Richardson & Burgess, Washington, D. C.	38,300	10 "
M'llvon, Unkeefer & Co., Pillsbury, Pa.	32,745	10 "

RANKIN, PA.—Reports state that the Homestead & Highlands St. Ry. Co. will erect a new brick and steel car barn, 120 x 230 ft., after plans by Wilkins & Davison, Engrs., of Pittsburg.

WASHINGTON, PA.—Maginn & Lewis, of Pittsburg, have been awarded the contract for installing a steam heating apparatus in the new county court house, and Halpin, Kennedy & Co., for the plumbing, gas fixtures, etc.

WASHINGTON, D. C.—Bids are asked until July 18 for furnishing the steel and cast-iron work required for galleries in four halls in the U. S. National Museum. Address J. Elfreth Watkins, Ch. Bldg. Division, Smithsonian Institution.

BALTIMORE, MD.—Bids are asked until July 20 for a new elevator in the city hall; deposit required, $500. Everett J. Dowell, Inspector of Bldgs.

CHATHAM, VA.—Bids are asked until July 25 for building a fireproof clerks office for the county and circuit courts, etc., for Pittsylvania county. Clk., W. B. Shepherd, of Chatham.

MOBILE, ALA.—The quarantine station at Mobile Bay was burned July 8, causing a loss to the fumigating machinery, wharf, etc., of about $50,000; insurance, $13,000.

NEW ORLEANS, LA.—It is reported that preliminary plans have been prepared for a new brick and stone church building for the Baptist Church, to cost about $80,000. Arch., H. W. Phillips, 40 State St., Rochester, N. Y.

CLARKSVILLE, TENN.—The following bids were received by the supervising architect, Washington, D. C., July 9, for a low pressure, return circulation steam heating and ventilating apparatus for the Post Office Building at Clarksville:

Blohe & Williams, New York	$2,653	65 days*
Bayley Heating Co., Milwaukee, Wis.	2,182	60 "
Chas. A. Moses, Chicago, Ill.	3,100	45 "
Chas. E. Roesch, Nashville, Tenn.	2,700	65 "
Edwin Wehle, Louisville, Ky.	2,187	65 "
T. J. Mooney, Nashville	2,450	60 "
Pittsburg H. & S. Co., Pittsburg, Pa.	2,090	60 "
Peet-Hammond Co., Cincinnati, O.	3,327	60 "

*Working days.

CLEVELAND, O.—Bids are asked until July 29 for the construction of the detention hospital building for the department of charities and correction of this city. Director, Wm. J. Akers.——A fire in this city July 9 damaged the 5-story brick dwelling on Erie St., near Vincent St., occupied by the Britton Printing Co.; reported loss, $80,000.

CINCINNATI, O.—The building commission for the new state capitol building to be erected in this city has selected the designs of Samuel Hannaford & Sons, Hulbert Block, Cincinnati, O.

HARTWELL, O.—Bids are asked by the board of city affairs of Cincinnati, until Aug 2, for installing the steam heating apparatus required for the annex for the harmless insane, at the city infirmary, at Hartwell. Pres., A. B. Rattermann; Archs., Samuel Hannaford & Sons, Hulbert Block, Cincinnati.

HOLGATE, O.—Bids are asked until July 25 for erecting a new tower and remodeling the old church building of the Wesley Chapel M. E. Church. Pastor, A. E. Delaney.

OTTAWA, O.—Bids are asked until July 25, according to reports, for the erection of a county jail and sheriff's residence. J. C. Jones, County Audr.

SPENCER, O.—Bids are asked until July 25 for constructing a school building, 24 x 32 ft., in Sub-District No. 3, Spencer township. C. M. Woods, Pres. Township Bd. of Education, Spencer.

BAY CITY, MICH.—Bids are asked until July 23 for erecting a new brick church building for the Universalist Church, to cost about $18,000. Arch., D. P. Clark, Phoenix Bldg.

CASSOPOLIS, MICH.—Biggerstaff & Atkins, Kalamazoo, Mich., have been awarded the contract for the erection of a new court house for Cass county, at $31,939. Archs., Rush, Bowman & Rush, Grand Rapids.

DETROIT, MICH.—Plans have been prepared, according to reports, for a 2-story marble bank building, 100 x 138 ft., to be erected in this city for the State Savings Bank at a cost of $200,000. Archs., McKim, Mead & White, 160 5th Ave., New York; Associate Archs., Donaldson & Meier, 89 Moffat Bldg., Detroit.——A. Chapoton is said to have been awarded the contract for the erection of a new opera house on Monroe Ave., to cost about $150,000.

CHICAGO, ILL.—Plans are being prepared for a 4-story brick, stone and terra cotta apartment building on West Monroe St., near Jefferson Park, for the Foss Estate, of Philadelphia, Pa.; estimated cost, $200,000. Bids for erection will be received about August 1. Arch., John Hulla, Jr., 1496 West Madison St.——Plans have been prepared, according to reports, for a 6-story store and apartment building to be erected at 359 and 361 East Indiana St. for Mrs. Augusta Heberlein; estimated cost, $40,000. Arch., Robert S. Smith. Adams Express Bldg.——Thomas Keating & Son, 197 Center Ave., have been awarded the contract for the mason work on the new church building, 87 x 138 ft., to be erected at Garfield Boulevard and Peoria St. for the Church of the Visitation; estimated cost, $90,000. Arch., Martin Carr, 134 Van Buren St.

ELGIN, ILL.—The contract for the masonry work on the new church building for the Church of the Immaculate Conception has been awarded to Lilly & Palm, of Elgin; estimated cost of building, $40,000. Pastor, John Mackin.

MADISON, WIS.—Bids are asked until July 27 for the installation of a heating apparatus in the new building being erected for the State Historical Library. Secy., I. S. Bradley.

MILWAUKEE, WIS.—Bids are asked until July 18 for the erection of a 3-story brick and stone building at River and Oneida Sts., for the Milwaukee Electric Light & Ry. Co. Pres., W. N. Cromwell.

GRACEVILLE, MINN.—Bids are asked until July 20 for the erection of an addition to the school building at Graceville. M. J. McDonnell, Secy. Bd. of Education; E. Strassburger, Arch., Wyoming and Stryker Aves., St. Paul, Minn.

MANKATO, MINN.—Bids are asked until July 16 for the erection and completion of a 4-story brick and stone bank and hotel building, 83 x 126½ ft. to be erected for M. K. Armstrong, of St. James, Minn. Arch., Frank Thayer.

MINNEAPOLIS, MINN.—The general contract for the erection of the new Chicago Great Western elevator at Oak and Chambers Sts., S. E., to cost about $30,000, has been awarded to James L. Record, 306 Corn Exchange.

TOPEKA, KAN.—Plans are said to have been prepared for a brick and stone church building, 60 x 130 ft., to be erected in this city for the St. Joseph's R. C. Church, at a cost of about $35,000. Arch., Geo. P. Stauduhar, Rock Island, Ill.

COLUMBUS, NEB.—Bids are asked by the board of education until July 25 for the heating, ventilating and plumbing of a 12-room school building in this city; also until July 26 for the erection of the building. Secy., H. F. J. Hockenberger, Columbus; Archs., W. R. Parsons & Son Co., 317 East 5th St., Des Moines, Ia.

GERING, NEB.—The contract for building the new Scott's Bluff county court house in this city has been let to Ed. W. Sayre. The building will be a 2-story brick structure, 28 x 42 ft.

CANDO, N. DAK.—Bids are asked by D. K. Brightbill, Audr. of Towner county, until July 30 for the erection of a brick court house and jail at Cando; separate bids will be received for the plumbing and steam heating. Arch., A. J. O'Shea, Fargo, N. Dak.

ELBOWOODS, N. DAK.—Bids are asked by the U. S. Indian Service, Fort Berthold Agency, Elbowoods, until July 30 for erecting a brick school and dormitory building. Agt., Thomas Richards.

POPLAR BLUFF, MO.—Bids are asked until July 21 for the erection of an 11-room school building for the board of education. Secy., Lemuel Mills; Arch., Wm. F. Schrage, 562 Scheidley Bldg., Kansas City, Mo.

ST. JOSEPH, MO.—The Hotel St. Joseph was destroyed by fire July 10, causing a reported loss of $130,000; insurance, $17,000.

ST. LOUIS, MO.—We are informed that the following bids were received by the board of public improvements, July 8, for the work complete of finishing the rooms in the new city hall, to be occupied by the city council and house of deelgates; the contract will be awarded July 15 to lowest bidder: all bidders are residents of St. Louis: Porter White, $59,000; C. Kellerman, $63,765; John Fitzgerald & Co., $66,700; Kerr & Allen, $65,639.

CARTHAGE, TEX.—Bids are asked until July 16 for erecting a 2-story brick bank building for the Bank of Carthage. Arch., Alfred Giles, San Antonio, Tex.

DENVER, COLO.—Philip Funke was awarded the contract for erecting the new Lafayette school building, July 2, at $33,912.

SEATTLE, WASH.—The Mutual Life Insurance Co., of New York, has taken out a permit for $70,000 worth of improvements on its local building on First Ave., including, among other things, the making of the entire structure fireproof.

COQUILLE, ORE.—Bids are asked until July 16 for erecting a 6-room school building in Coquille. Geo. F. Boutell, Clk. of School District No. 8, Coos county; Chas. H. Burggraf, Arch., Salem, Ore.

SAN FRANCISCO, CAL.—Thomas Marshall, of Pittsburg, Pa., has been awarded the contract for the steel and iron work for the San Francisco Court House, at $154,715; time, 8 months.——It is reported that the Bank of California will erect a brick warehouse on Battery St., near Broadway, to cost about $50,000.——A new $60,000-residence is to be built at Jackson and Octavia Sts. for Mrs. Adolph Roos. Arch., J. C. Kraft, 71 Academy of Science.

GARLAND, UTAH.—Bids are asked by Carl Jensen, of Bear River City, Utah, until July 20, for erecting a brick school building at Garland School District No. 13.

PROVO CITY, UTAH.—Bids are asked until July 30 for the erection of an 8-room school building in this city. Address R. C. Watkins.

NIAGARA FALLS, ONT.—It is reported that a large hotel building will be built here by the railway companies between the old Clifton House and Table Rock; estimated Cost, $500,000. Arch., Bruce Price, 150 5th Ave., New York.

ST. THOMAS, ONT.—The board of education has awarded the following contracts towards the erection of the Balaclava St. school building; Archs., B. Long & Son, St. Thomas: For masonry, Ponsford Bros., at $8,670; cut stone work, Doggett & Co., $1,302; carpentry, R. Cole, $5,959; plastering, James Stewart, $635; slating, John Riddle, $886; painting and glazing, W. T. Mossop, $774; ceiling, Ormsby & Co., Toronto, $743; sheet metal work, Ormsby and Co., $134.——The court house and county jail at St. Thomas was burned July 2, causing a loss of about $50,000.

STRATFORD, ONT.—Bids are asked until July 25 for the erection of a municipal building in this city; Arch., George W. King, 9½ Adelaide St. E., Toronto, Ont.——Bids are also asked for the rebuilding of the old City Hall; Arch., Alexander Hepburn, Stratford; F. Ingram, Chn. Market and Police Com.

WATER-WORKS.

DANFORTH, ME.—We are informed that this place will not build works this season, as has been reported.

DEXTER, ME.—This town has taken no action on the matter of water-works, and the intention at present is to abandon the idea. The town has a partial fire service, and several private pipe lines from the springs are owned by individuals. Engr., P. H. Coombs, Bangor, Me.

ENFIELD, MASS.—H. M. Smith writes us that no work will be done on the proposed new works or in enlarging the present reservoir this season. No money has been appropriated by the town for works.

HUNTINGTON, MASS.—Bids are asked by the commissioners until July 27 for building a dam, laying about four miles of water pipe, etc., for the proposed works. There will be required 700 cu. yds. of rubble masonry and 1,200 yds. of earth filling. Engrs., E. C. & E. E. Davis, Northampton, Mass.

WATERTOWN, MASS.—Dr. Bennett F. Davenport, Chn. Com., writes us that the Watertown Water Supply Co. having rejected the offer made by the committee to accept in payment for its works, which the town had taken, the sum of $400,000, the case is being prepared for trial before the commissioners.

ALBANY, N. Y.—Bids are asked until Aug. 2 for furnishing and constructing a pumping station at the new filtration plant. Geo. I. Bailey, Supt.

OSWEGO, N. Y.—It is proposed to extend the water mains in several streets.

ALDEN, N. Y.—The people are considering the question of holding another election to vote on the proposition to issue bonds for works. It was reported last year that J. F. Witmer, 705 Ellicott Sq., Buffalo, had prepared plans.

WEST TROY, N. Y.—The water commissioners of Watervliet are considering the question of building new works. The water supply would be secured from the Tomhannock Creek, a short distance east of Troy. Estimated cost, about $200,000. Consult. Engr., Elnathan Sweet, 13 Tenbroeck St., Albany.

ASBURY PARK, N. J.—The township committee has granted a franchise to the Ocean Grove Association to supply water to West Grove and Bradley Park. Township Clk., Jos. Harris.

JERSEY CITY, N. J.—Bids are asked by the street and water board until Aug. 18 for furnishing this city with a water supply. The new specifications call for a 50,000,000 gallon supply with the option of increasing the supply to 70,000,000 gallons. Two pipe lines will be constructed, one of a 50,000,000 gallon capacity, and the other capable of carrying a 30,000,000 gallon supply.

NEWARK, N. J.—Press reports state as follows: Engineers have selected a site for a 700,000,000-gallon storage reservoir half a mile south of Great Notch, back of the Orange Mountain range and in a natural basin quite near the conduits which supply the city from the Pequannock watershed. The report states that this action was caused by the warning from the East Jersey Water Co. that the city was using more than 2,700,000 gallons daily, which is the quantity fixed by the contract until the city makes its final payment for the works in 1900.

BEAVER, PA.—Bids are asked until July 18 for furnishing and laying about 5,000 ft. of 10-in. cast-iron water pipe, sinking a pump well and erecting a pumping station, furnishing two triplex power pumps of 500,000 gallons each, and two gas engines, and for constructing a 1,000,000-gallon reservoir, etc. Engr., J. P. Leaf, Brighton St., Rochester, Pa.; Jno. Aiken, Chn. Com.

BOYERTOWN, PA.—The council has issued $35,000 in bonds for the proposed works. J. K. Grant, Borough Solicitor.

CAMBRIDGE SPRINGS, PA.—Geo. L. Wade, Clk., writes us that Chandley Bros. & Co., Beaver Falls, Pa., were awarded the contract July 11, at $18,964, for constructing the works. The itemized bids of the contract will be given next week.

GLENSIDE, PA.—The Glenside Water Co. was incorporated July 7, with a capital stock of $1,000, by W. T. B. Roberts, F. A. Roberts, James P. P. Brown, C. E. Albright, C. F. Mehns, Philadelphia.

BALTIMORE, MD.—The Tuxedo & Embla Parks Water & Electric Light Co. has been organized by Granville O. Wilson, Henry A. Leonard, John H. Neudecker, Frederick E. Wilson and William F. Smith. The company is limited to 40 years, and has a capital stock of $25,000. The purpose of the corporation is to supply the residents of Tuxedo and Embla Parks with water, and ultimately with electric light. The board of directors will consist of the incorporators and William Coney, William W. Fulton, A. M. Irving and Alphonse Lowekamp.

RENOVO, PA.—Bids are asked until July 28 for furnishing 9,000 ft. of 6 and 8-in. cast-iron water pipe, 22 hydrants, valves, etc., and for laying and setting same, as stated in our advertising columns. J. H. Baird, Chn. Com.; Wm. J. Straley, Secy.

BLAKELY, GA.—This place is reported to have voted against issuing $10,000 in bonds for the proposed works.

OPELOUSAS, LA.—Bids are asked until July 15 for the lease of the works and the electric light plant, now under construction, for a term of five years. The lessors to take charge of plant as delivered by contractors to the town, and to supply the town, free of any cost, with light from 40 arc lights now erected, and also 4 incandescent lights, and also to supply the town with water for fire purposes from hydrants now erected, as well as from any hydrants the town may hereafter place in present mains or extensions that may be made. Water and electric light rates for private parties to be agreed upon between the lessees and lessors, which rates are not to exceed rates being charged by similar plants in adjoining parishes. Thomas H. Lewis, Jr., Cy. Clk.

CHICAGO JUNCTION, O.—Bids are asked until July 21 for furnishing and installing a water tower and tank, hydrants, valves, and pipe laying and for constructing a reservoir. Louis Simmerscher, Secy. Water-Works Trustees; L. C. Hess, Mayor.

POMEROY, O.—Bids are asked until Aug. 10 for furnishing and constructing works for the Pomeroy & Middleport Water Co., 800 Broad St., Newark, N. J., as described in our advertising columns. Pres., Geo. MacDonald, Newark, N. J.; Engr., J. W. Ledoux, 112 North Broad St., Philadelphia.

GLOUSTER, O.—The city clerk writes us that the city has not decided on the kind of pump to be installed at the proposed works. A stand-pipe will be wanted. The works will cost $12,000. Correspondence is solicited. Population, 3,000.

INDIANAPOLIS, IND.—The Indianapolis Water Co. has offered to sell its works to the city for $1,200,000.

BAY CITY, MICH.—The question of laying water mains in certain streets is being considered.——Alderman Flajole is urging the board to consider the question of securing a better water supply. City Engineer Blomsfield may be addressed.

CASS CITY, MICH.—Bids are asked until July 22 for furnishing and installing the pumping machinery, boilers, pipe, lead, castings, etc., for the proposed works; estimated cost, with electric plant, $18,000. Engr., G. C. Morgan, Royal Insurance Bldg., Chicago; Village Clk., Hugh W. Seed.

BATAVIA, ILL.—Bids are asked until July 23 for furnishing and laying about 5,741 ft. of 4 and 6-in. cast-iron water pipe, setting hydrants, valves, etc., according to reports. Geo. H. Burnett, Cy. Clk.

CHICAGO, ILL.—It is reported by local papers that the following contracts have been let for the superstructure of the crib for the new northwest tunnel; it will be located three miles out in the lake: The FitzSimons & Connell Co., general work, $14,476; electric work, $1,865; Pittsburg Bridge Co., steel work, $10,400; J. J. Wade & Son, plumbing, $375; M. J. Cragin, steam heating, $4,026.

MURPHYSBORO, ILL.—The council is reported to have been petitioned to purchase the works, plants, etc., of the Murphysboro Water-Works, Electric & Gaslight Co. for $145,000.

OREGON, ILL.—L. Wilson, 53 Dearborn St., Chicago, has been awarded the contract for drilling an artesian well 1,200 ft. for an increased water supply.

ROCK ISLAND, ILL.—Bids are asked until Aug. 1 for cast-iron water pipe, special castings, valves, lining for reservoirs, gravel, sand, etc. We are informed that this will complete the new improvements to the water supply. The work upon the improvement, which consists of the construction of a system of settling basins, natural or slow sand filters and distribution reservoir, and reinforcement of the system of mains, has been started. Jacob A. Harman, Consult. Engr., Peoria, Ill.

AUGUSTA, WIS.—E. M. Bradford, Mayor, writes us that this place voted July 6 to issue $12,000 in bonds for the proposed works. The contract for building the works will be let at once. Population, 1,500.

MINNEAPOLIS, MINN.—Bids are asked by the water committee until Aug. 26 for furnishing and installing one or two new pumps, with a capacity of 10,000,000 gallons each, for the North Side station. F. W. Cappelen, Cy. Engr.

NEW PAYNESVILLE, MINN.—Bids are asked until July 15 for furnishing and constructing the works and electric plant, according to reports. The works will cost $8,000. Engrs., Fairbanks, Morse & Co., St. Paul, Minn.; Attorney, Frank Tolman.

DES MOINES, IA.—An election will be held Aug. 29 to vote on the question of purchasing the works for $850,000.

CEDARVALE, KAN.—This place voted June 21 to issue $5,000 in bonds for works. J. P. Tabler, Mayor.

SIOUX FALLS, S. DAK.—S. B. Howe, Cy. Engr., has submitted estimates, etc., for municipal works to cost about $130,000.

GREAT FALLS, MONT.—An election will be held July 26 to vote on the question of issuing $260,000 in 20-year 6% bonds for the proposed municipal works, noted in our issue of June 30.

CONCORDIA, MO.—Bids are asked until July 15 for the purchase of $5,000 of 20-year 5% bonds for the proposed works. Population, 1,000. Otto Walkenhorst, Cy. Clk.

KIRKSVILLE, MO.—James E. Adams, 3 Wells Bldg., Quincy, Ill., has not yet secured the franchise for extending the city works, as has been reported. It is probable he will get the contract or franchise later. The source of the new supply will be the Chariton River.

McKINNEY, TEX.—Bids are asked until July 18 for the purchase of $18,000 of 20 and 40-year 5% bonds for the proposed works, according to reports. J. M. Pearson, Mayor.

BLACK HAWK, COLO.—Bids are asked until July 18 for furnishing the material and for constructing the proposed new works; estimated cost, $35,000. F. A. Rudolph, Cy. Clk.

WARD, COLO.—Estimates are reported as being prepared for the proposed works by D. J. McCanne, 1700 17th St., Denver, for the proposed works for this place; estimated cost, $15,000. Population, 2,000. Mayor N. D. Sibley; Wm. Thompson is on the committee.

CONDON, ORE.—It is reported that this place has decided to put in works this year at a cost of about $4,000. W. A. Darling, Cy. Recdr.

OAKLAND, CAL.—A new water company is reported as about to be organized by Hugh Forgie, J. B. Hume and Dr. Allen, to build works to cost about $30,000.

BERKELEY, CAL.—It is stated that a committee has been appointed to prepare a preliminary report with regard to municipal works.

LONG BEACH, CAL.—The Bouton Water Co. has applied for a franchise for laying a 16-in. main in this place, according to reports.

BOUNTIFUL, UTAH.—The council is reported as arranging to sell $10,000 of 20-year 6% bonds for constructing works.

ASHBURN, ONT.—Press reports state that an election will be held here July 20 to vote on the question of issuing $15,000 in bonds for works.

HAMILTON, ONT.—The committee has decided to improve the pumping engines at a cost of about $4,000; and also to purchase of site for high-level reservoir.

LISTOWEL, ONT.—This place voted July 6 against issuing $19,500 in bonds for the proposed works, bids for which were received June 29.

OTTAWA, ONT.—It is stated that the Ottawa Suburban Water-Works Co., Ltd., has incorporated with a capital stock of $80,000.

IRRIGATION.

ALBUQUERQUE, N. MEX.—The Albuquerque Land & Irrigation Co. has decided to construct a new canal for irrigation in this vicinity.

WINSLOW, N. MEX.—The contract for the storage dam at Hay Lake has been let to McDonald & Leonard, Lamar, Colo. The dam is to be 24 ft. high and 850 ft. long.

OXFORD, IDAHO.—The Interstate Canal Co. has considered favorably a proposition to extend its canal into the Salt Lake Valley.

NEW COMPANIES.—West Irrigation Co., Sandy, Utah; $1,000; George Marriott, Pres.; Samuel Spencer, Vice-Pres.; A. White, Secy.; Knud Bendixsen, Treas.; L. A. Lundgren, David E. Jones.

New York Improvement Co., Columbus, Neb.; $300,000; O. T. Roen, J. Dayton Stires, Clayton A. Gates, Orlando Nelson, Ira E. Gates and Charles A. Woolsey.

SEWERAGE.

FALL RIVER, MASS.—Beattie & Wilcox, Fall River, have been awarded the contract at $10,300 for constructing an outlet sewer in Odd St.

MILLER'S FALLS, MASS.—This town has appropriated $1,000 for a sewer in Grand Ave.

HARTFORD, CONN.—It is proposed to construct a 4-ft. sewer in Lawrence St., between Grand and Park Sts.

ALBANY, N. Y.—Bids are asked until July 18 for constructing an 18-in. and 15-in. pipe sewer in Dove St.; two sureties of $2,000 each. Thos. J. Lanahan, Clk. Bd. of Contract.

BUFFALO, N. Y.—Bids are asked until July 22 for constructing a pipe sewer in Carlyle Ave. R. G. Parsons, Secy. Dept. Pub. Wks.

LITTLE FALLS, N.Y.—The council has voted to build sewers in a number of streets. Councilmen Cook and Newell and Mayor Dasey may be addressed.

ROCHESTER, N. Y.—Bids are asked by the executive board until July 18 for constructing a pipe sewer in Manhattan St. to cost $1,750, a pipe sewer in Eiffel Park to cost $2,020, and also for improvements in three streets to cost about $4,175.

TROY, N. Y.—It is proposed to construct a pipe sewer in Bond St., instead of a brick sewer. City Engineer Schenck may be addressed.

CAMDEN, N. J.—Bids are asked until July 19 for constructing sewers in several streets. Wm. Z. Gibson, Chn. Com.; L. E. Farnham, Cy. Engr.

FLEMINGTON, N. J.—Waring, Chapman & Farquhar, 874 Broadway, New York, have been engaged to prepare plans for and superintend the construction of a system and land disposal works. Surveys are now being made. About six miles of sewer will be built.

WEST ORANGE, N. J.—The township committee is considering the question of constructing a 30-in. drain, to cost about $4,000.

BELLEVUE, PA.—Bids are asked until July 19 for constructing a system. It will have about 82,500 ft. of 24 to 8-in. pipe sewers. Engrs., Edeburn, Cooper & Co., 410 Grant St., Pittsburg, Pa.

CRAFTON, PA.—It is reported that this place will vote July 26 on the question of issuing $3,500 in bonds for extending the system.

McKEES ROCKS, PA.—An election is reported to have been called for July 20 to vote on the question of issuing $10,000 in bonds for extending the system.

MOUNT PLEASANT, PA.—City Engineer Neel is preparing plans for a sewer in a certain street, from Main to Quarry St.

PHILADELPHIA, PA.—Bids are asked until July 19 for constructing branch sewers. Thos. M. Thompson, Dir. Dept. Pub. Wks.

RANKIN, PA.—A. F. Duffy, Borough Solicitor, is preparing a proposition to be submitted to the voters authorizing the issuance of $25,000 in bonds for sewers and street improvements.

TARENTUM, PA.—Bids are asked until July 18 for constructing about 11,000 ft. of 30 to 8-in. pipe sewers, 43 manholes, 2 flushtanks, etc. John Duster, Chn. Com.

ROANOKE, VA.—Bids are asked until July 16 for constructing sewers in section 21 of the system. J. H. Wingate, Cy. Engr.

GOLDSBORO, N. C.—Bids are asked until July 21 for furnishing the material and for constructing a system, as stated in our advertising columns.——We are informed that the city has sold $30,000 of sewer bonds. Engr., J. L. Ludlow, Winston, N. C.; Chn. Com., N. O'Berry.

DALTON, GA.—J. L. Ludlow, 434 Summit St., Winston, N. C., has been engaged to prepare plans, etc., for a system for this city.

LOUISVILLE, KY.—Bids are asked by the board of public works until July 22 for enlarging to 3 ft. the main sewer in a portion of Breckinridge St.

CINCINNATI, O.—The city engineer is reported as preparing plans and specifications for a main sewer in Camp Washington, from the Maimi Canal to Mill Creek; estimated cost, $100,000.

HAMILTON, O.—The council has voted to spend $3,500 for a storm sewer in district No. 7. M. O. Burns, Cy. Clk.

MARYSVILLE, O.—Dr. C. O. Probst, Secy. State Bd. of Health, Columbus, has been directed to prepare plans for a system; the outlet to be into Mill Creek or onto sewage disposal beds.

NAPOLEON, O.—Riggs & Sherman, 613 The Nasby, Toledo, have been engaged to prepare plans, etc., for a system for this place.

FRANKLIN, IND.—A sewer is to be built in a street to extend from Washington to Ohio St.

COLDWATER, MICH.—Riggs & Sherman, The Nasby, Toledo, O., have been engaged to prepare plans, etc., for a system and for certain paving.

FLINT, MICH.—Bids are asked until July 18 for constructing an 8-in. pipe sewer in Clifford St., from Kearsley St. to the Flint River. F. P. Barker, Clk. Bd. Pub. Wks.

OWASSO, MICH.—John Granville, Saginaw, Mich., is reported to have been awarded the contract for constructing a mile of 30 to 8-in. pipe sewers.

KEWANEE, ILL.—Bids are asked until July 25 for constructing a system, as described in our advertising columns. J. H. Pierce, Pres. Bd. Local Improvements; J. C. Quade, Cy. Engr.

EAST ST. LOUIS, ILL.—It is proposed to extend the 8th St. sewer from Walnut Ave. to Bradley Ave., at a cost of about $4,500. Mayor Stephens may be addressed.

MILWAUKEE, WIS.—Bids are asked until July 19 for pipe sewers in certain streets. G. H. Benzenberg, Chn. Comrs. Pub. Wks.

WAUPACA, WIS.—Bids are asked until July 16 for grading, etc., for the sewage disposal plant, at the Wisconsin Veteran's Home. Engr., G. Steinhagen, Room 44, Mack Block, Milwaukee; Pres. Trustees, Geo. A. Thomas.

MUSCATINE, IA.—Wm. Horrabin, Iowa City, Ia., has been awarded the contract for constructing a main sewer in District No. 2 at $3,691.

INDEPENDENCE, MO.—Andrew Rosewater, Bee Bldg., Omaha, Neb., is preparing plans for a system for this city. It is proposed to receive bids soon and before the question is submitted to the vote of the people. H. H. Pendleton, Cy. Engr.

NEVADA, MO.—Bids are asked until July 19 for constructing sewers in several streets. L. H. McDaniel, Clk.

POPLAR BLUFFS, MO.—W. H. Hipolite, Cy. Engr., and H. W. Kerr, St. Louis, Mo., are making surveys and plans for the proposed system. It is stated that bids will be asked in a few weeks.

ST. JOSEPH, MO.—The council has voted to ask for bids for constructing sewers in a number of streets. Mayor, P. J. Kirschner; Clk., C. S. Shepherd.

GALVESTON, TEX.—G. Z. Little, Cy. Clk., writes us that no steps have yet been taken toward securing a system. The committee consists of Dr. H. A. West, Chn.; J. D. Skinner, W. F. Stewart and C. Van Sickle. A report states that the committee is about to recommend the purchase of a private system.

McKINNEY, TEX.—The New Odorless Sewerage Co. has been incorporated with a capital stock of $10,000, by Jack Steele, M. P. Kelly and W. H. Steele.

SHERMAN, TEX.—Tom Randolph writes us that the council is considering a proposition made by the Pennsylvania Sanitation Co., Betz Bldg., Philadelphia, to put in a system in this city. The sewerage committee of the council is composed of C. P. Gregory, M. H. Andrews and R. R. Dulin.

VICTOR, COLO.—Andrew Rosewater, Bee Bldg., Omaha, Neb., has been engaged to prepare plans for a system.

SEATTLE, WASH.—C. J. Erickson has been awarded a contract for constructing a sewer in Jackson St., at $1,037.

EMERYVILLE, CAL.—It is stated that arrangements are being made by the board of trustees for constructing the proposed system for which plans have been prepared by the city engineer. There will be required 19,260 ft. of 14 to 6-in. pipe sewers. Engr., Thos. N. Badger; J. S. Emery, Chn. Com.

POMONA, CAL.—The question of building a system is being considered, according to reports.

BERLIN, ONT.—An election will be held July 30 to vote on the question of issuing $5,000 in bonds for extending the system. Engr., Herbert J. Bowman; Clk., H. Aletter.

MEXICO, MEX.—Cleveland, O., papers state that H. A. Robinson, formerly of Akron, O., now manufacturing sewer pipe in Mexico, has been awarded a contract, at about $1,500,000, by Vezin & Letellier, Paris, France, the general contractors, for furnishing all the pipe required for the proposed system.

GARBAGE DISPOSAL—STREET CLEANING.

MATTEAWAN, N. Y.—The village board has directed the clerk to ask for bids for removing ashes and garbage for the year beginning Aug. 5.

NEW YORK, N. Y.—Bids are asked until July 22 for repairing the steam garbage dumper "Cinderella;" surety, $3,000. James McCartney, Comr. St. Cleaning, 346 Broadway.

UTICA, N. Y.—The following bids were received by the council July 1 for removing and disposing of the garbage, night soil, etc.: McKeough Bros., Utica, five years, $18,000 a year; 10 years, $12,000 a year. They propose to use the Holthaus system. Henry Stappenbeck, five years, $8,000 a year; 10 years, $6,500 a year. Kirk, Driscoll & Co., Syracuse, five years, $11,000 a year; 10 years, $10,500 a year, using the system now being used at Syracuse. William Hatfield offered to do the work by placing the garbage in trenches on his farm.

NEWARK, N. J.—Bids are asked until July 18 for removing and disposing of all dead animals from this city; bond, $1,000. L. J. Wendell, Cy. Clk.

ALAMEDA, CAL.—The board of health committee has submitted a report recommending that no garbage disposal plant be built this year.

SANTA BARBARA, CAL.—The council has directed the city engineer to prepare plans for a system of pipes for furnishing the city with salt water for sprinkling the streets.

STREETS AND ROADS.

AUGUSTA, ME.—Bids are asked until July 14 for furnishing and laying edgestones, flagging and 2,485 sq. yds. of granite block in Oak and Winthrop Sts. L. D. Carver, Chn. Com.

WATERVILLE, ME.—The council has authorized the purchase of a stone crusher and will improve College Ave. this summer.

BOSTON, MASS.—The council has voted to appropriate $167,520 for street improvements.——The Massachusetts State Highway Commission has appropriated money for road construction as follows: Ashfield, $5,000; Ashby, $5,000; Auburn, $5,000; Beverly, $5,500; Bourne, $7,500; Brimfield, $5,000; Brockton, $4,000; Brookfield, $5,000; Buckland, $5,000; Chicopee, $5,000; Colrain, $5,470; Concord, $5,000; Dartmouth, $5,000; Erving, $5,000; Greenfield, $5,000; Hadley, $5,000; Holden, $5,000; Lunenburg, $5,000; Marlboro, $5,000; Marshfield, $5,000; Merrimac, $5,500; Middleboro, $3,000; Northampton, $5,000; Northboro, $5,000; North Reading, $5,000; Paxton, $6,000; Phillipston, $5,000; Pittsfield, $8,000; Plymouth, $6,000; Russell, $5,000; Shrewsbury, $6,000; Sandwich, $7,500; South Hadley, $5,000; Sterling, $5,000; Sudbury, $6,000; Taunton, $5,000; Townsend, $5,000; Truro, $2,295; Uxbridge, $5,000; Walpole, $7,000; Warren, $5,000; West Boylston, $5,000; Westminster, $5,000; Williamstown, $8,195; Wrentham, $7,000; total, $240,960.

BROOKLINE, MASS.—Reports state that A. H. French, Cy. Engr., has estimated the cost of widening Boylston St., from Cypress St. and the town line, at $263,000.

WATERBURY, CONN.—Bids are asked until July 22 for constructing a gravel road. Wm. G. Smith, Engr., 140 Grand St., Waterbury; P. C. Morris, First Selectman.

NORWICH, CONN.—Bids are asked until July 18 for building about 2,000 ft. of macadam road. A. S. Spalding, First Selectman.

WINDHAM, CONN.—Bids are asked until July 20 for grading and macadamizing a section of road. E. H. Holmes, First Selectman.

ALBANY, N. Y.—Bids are asked until July 18 for paving Partridge St. with brick from Madison Ave. to Western Ave. T. J. Lanahan, Clk.

BUFFALO, N. Y.—The Barber Asphalt Paving Co., New York, submitted the lowest bid July 7 at $9,000 for resurfacing Lafayette Ave.

KINGSTON, N. Y.—J. T. Cummings, Cy. Clk., informs us that the committee has not fully decided upon the question of paving 4,000 sq. yds. with asphalt, estimated cost $10,000. W. Klingberg, Cy. Engr.

PEEKSKILL, N. Y.—The board of trustees have appropriated $4,000 for street work. Geo. W. Robertson, Pres.; L. F. Crumb, Clk.

PORTCHESTER, N. Y.—J. A. Kirby, Engr., Portchester, writes us that the village trustees have decided to pave a portion of Main St. and Westchester Ave. with brick, about 16,000 sq. yds.

TUCKAHOE, N. Y.—Bids are asked until July 18 for furnishing material and paving in Eastchester, as described in our advertising columns. Wm. J. Fisher, Town Clk.

TROY, N. Y.—Bids are asked until July 19 for paving portions of North St. and Ingalls Ave. with brick, 6,200 sq. yds., estimated cost $11,000. E. Ogden Ross, Secy. Contracting Bd.; Martin Schenck, Cy. Engr.

JERSEY CITY, N. J.—Bids are asked until July 27 for 2,733 sq. yds. of asphalt paving, curbing, etc., on Cottage St., from Summit Ave. to the Hudson Boulevard. Geo. T. Bouton, Clk. St. Comrs.

MOUNT HOLLY, N. J.—Bids are asked by the township committee for paving in Water St., with cobblestone.

CAMDEN, N. J.—A gravel roadway will be constructed on Ephraim Ave., from Starr's crossing to Ferry Ave.

PHILADELPHIA, PA.—The council has passed ordinances to pave portions of three streets with asphaltum and eight streets with brick. Chas. F. Warwick, Mayor.

PITTSBURG, PA.—Bids will soon be asked for grading, paving and constructing sidewalks in Cora and Iowa Sts.; grading, paving and curbing in Cooper and Ophelia Sts., and for grading a portion of Anna St. and Woods Run. Chas. Geyer, Mayor; Robt. Dilworth, Cy. Clk.

READING, PA.—Bids are asked until July 18 for 30,000 lin. ft. of granite curbing and 51,400 sq. yds. of sheet asphalt paving, appropriation $107,000. S. S. Hoff, Cy. Engr.; H. H. Hammer, Cy. Clk.

SCRANTON, PA.—Bids are asked until July 21 for constructing about 43,708 sq. yds. of brick pavement on concrete on Providence Road and North Main Ave. Joseph P. Phillips, Cy. Engr.

SHAMOKIN, PA.—An election will be held Aug. 23 to vote on the question of borrowing $65,000 for paving. President Reed may be addressed.

BRIDGEPORT, W. VA.—A resolution will be presented to the council to authorize an issue of $60,000 in bonds for paving, etc.

MERIDIAN, MISS.—C. M. Buckhalter & Co., 708 South 23d St., Birmingham, Ala., has been awarded a contract for paving at about $25,000.

NEW ORLEANS, LA.—Bids will soon be asked for paving Canal St. and for improving Neutral and Grand Sts., estimated cost $163,000. A. C. Bell, Cy. Engr.

CLEVELAND, TENN.—The county court has voted against a proposition to issue $100,000 in bonds for the construction of roads. It is stated that money will be raised by taxation.

LOUISVILLE, KY.—Bids are asked by the board of public works until July 22 for paving in Von Borries Ave., and Hepburn Ave., under a 10-year guarantee.

CINCINNATI, O.—Bids are asked until Aug. 8 for repairing asphalt pavement in certain streets for a period of five years. A. P. Butterfield, Clk. Bd. Cy. Affairs.

CINCINNATI, O.—Bids are asked until Aug. 3 for asphalt paving in Bates Ave., macadamizing in Western Ave., and improving seven other streets. A. P. Butterfield, Clk. Bd. Cy. Affairs.——Bids are asked until Aug. 10 for macadamizing a portion of the Montgomery Pike road, in Columbia township. E. L. Lewis, County Audr.

HAMILTON, O.—L. A. Dillon, Cy. Engr., has submitted four estimates for paving 2d St., from Central Ave. to Black St., with brick, sheet asphalt and block asphalt, to cost from about $37,834 to $63,984.

LIMA, O.—Bids are asked until July 22 for paving South Main St. R. H. Gamble, Cy. Engr.——Specifications are being prepared for asphalt instead of brick paving in North St.

MANSFIELD, O.—Bids are asked until Aug. 6 for improving Hedges St., from Park Ave. to Home Ave. F. M. Remy, Cy. Clk.

ORRVILLE, O.—Bids are asked until Aug. 9 for material and work for improving Market St. E. Wirth, Cy. Clk.

WARREN, O.—It is reported that a contract has been awarded to T. J. Mulligan, Ironton, at about $24,000 for asphalt block paving.

SHELBY, O.—Bids are asked until July 16 for macadamizing five miles of road, in Sharon township. W. F. Sonnanstine, Clk.

TOLEDO, O.—Bids are asked until July 18 for furnishing material and paving Fassett St., from Oak St. to the bridge. L. P. Harris, Cy. Clk.——Bids are asked until Aug. 1 for macadamizing a portion of the Monclova Road. Wm. M. Godfrey, County Audr.

ANDERSON, IND.—Bids are asked until Aug. 8 for constructing 18,000 sq. yds. of brick pavement. H. H. Rogers, Cy. Engr.

GARRETT, IND.—Bids are asked until July 19 for furnishing material and paving the alley through block 25. J. P. Crimmins, Cy. Clk.

INDIANAPOLIS, IND.—Bids are asked until July 20 for grading, curbing, paving, etc., in Northwestern Ave., Roanoke St. and other streets. M. A. Downing, Chn.

SOUTH BEND, IND.—Bids are asked until July 25 for constructing cement sidewalks in portions of four streets. L. A. Hull, Cy. Clk.

SPENCER, IND.—Bids are asked until July 20 for constructing a pike road about 2½ miles long, estimated cost $4,733. J. B. Workman, County Audr.

SULLIVAN, IND.—Bids are asked until July 25 for grading and paving a portion of Wall St. J. M. Sinclair, Clk.

COLDWATER, MICH.—Riggs & Sherman, Engrs., 613 The Nasby, Toledo, O., are preparing plans for paving.

DETROIT, MICH.—The following paving contracts have been awarded by the board of public works, according to reports: William Lappin, 1st St., cedar block, $4,369; G. E. Currier & Co., Grand River Ave., cedar block, $22,963.——Bids will soon be asked for paving portions of Crane Ave., Montcalm St. and Mt. Elliott Ave.

KALAMAZOO, MICH.—East Main St. will probably be paved this summer with brick at a cost of about $13,000. Alderman Westbrook may be addressed.

PORT HURON, MICH.—F. F. Rogers, Cy. Engr., informs us that a contract has been awarded to B. D. Barton, at $11,479, for 10,800 sq. yds. of cedar block on concrete on Erie St.

SAULT STE. MARIE, MICH.—W. M. Sewell, Clk., informs us that the county commissioners have purchased a stone crusher from the Indiana Road Machine Co., and do not expect to do any work by contract.

CHARLESTON, ILL.—Bids are asked until July 15 for about 6,000 sq. yds. of brick paving. T. V. Miles, Cy. Clk.

PROVISO, ILL.—Bids are asked until Aug. 1 for constructing four miles of macadam road. R. E. Williams, Engr., 84 La Salle St., Chicago; Jacob Bohlander, Town Clk., Maywood.

KEWANEE, ILL.—Bids are asked until Aug. 1 for paving Tremont St.; appropriation, $45,000. J. C. Quade, Cy. Engr.——The council has appropriated $20,000 for sidewalks, etc.

MILWAUKEE, WIS.—Bids are asked until July 15 for the purchase of $140,000 of street improvement bonds. Wm. J. Fiebrantz, Comptroller.

OSHKOSH, WIS.—The council is considering a proposition to spend $40,000 for macadamizing in seven streets. A. B. Ideson, Mayor.

DES MOINES, IA.—Bids are asked until July 20 for cement curb and brick paving on Pleasant St. E. W. Woodruff, Cy. Clk.

MUSCATINE, IA.—The council has awarded contracts for brick paving in District No. 14, to Edwards & Walsh, at $10,496, and in District No. 15, to Fuller Bros., at $8,618.

DULUTH, MINN.—Bids are asked until July 22 for improving Fifth St., between 26th Ave. and 27th Ave. R. Murchison, Clk. Bd. Pub. Wks.

MINNEAPOLIS, MINN.—Bids are asked until July 29 for furnishing artificial combined curb and gutter, to be used during the season of 1898; surety, $200. F. W. Cappelen, Cy. Engr.; L. A. Lydiard, Cy. Clk.

ST. PAUL, MINN.—Bids are asked until July 18 for grading the extension of Cleveland Ave. D. M. Sullivan, County Audr.

INDEPENDENCE, KAN.—We are informed that bids are asked until July 31 for 23,000 sq. yds. of brick paving, requiring 7,000 cu. yds. of excavation. John M. Walker, Cy. Engr.

TOPEKA, KAN.—The Gilsonite Paving & Roofing Co., St. Louis, Mo., has been awarded a contract, by the council, at $10,291 for paving the driveways, walks, etc., in the state house square.

SHERMAN, TEX.—Tom Randolph writes us that the council is considering a proposition for certain paving. It is not yet ready to ask for bids for the work. Councilmen C. P. Gregory, M. H. Andrews and R. R. Dulin may be addressed.

OAKLAND, CAL.—Bids are soon to be asked for macadamizing three county roads.

MANUFACTURING PLANTS.

BUFFALO, N. Y.—It is said that the plant of the Buffalo Co-operative Brewery will be rebuilt at a cost of $25,000.——G. Fred Zellers Sons will build an addition to their tannery to cost $10,000.

ROCHESTER, N. Y.—Plans have been prepared for a 6-story brick and stone factory building, 285 × 75 ft., to be erected here for the Utz & Dunn Shoe Mfg. Co.; reported cost, $10,000. Archs., Ellis & Ellis, Powers Bldg., Rochester.

JERSEY CITY, N. J.—A new silk factory will probably be erected in this city for C. Stohn's Sons, Summit Ave. and Bleecker St.; estimated cost, $20,000. Arch., Emil Guhl, 19 Charles St., Jersey City.

PHILLIPSBURG, PA.—H. L. Forte & Co., Drexel Bldg., Philadelphia, Pa., have been awarded the contract for the erection of six additional buildings to the plant of the Vulcanite Portland Cement Co., at Vulcanite Station, on the New Jersey Central R. R., near Phillipsburg. Two of the buildings are 2-story and four 1-story, the largest measuring 600 × 80 ft.; estimated cost, $100,000. Archs., Hales & Ballinger, 11th and Chestnut Sts., Philadelphia, will supervise the work, which will be started at once.

PHILADELPHIA, PA.—The 5-story brick factory building of Halton & Shoemaker, at Boone and Diamond Sts., was destroyed by fire July 10, causing a loss of about $100,000; fully insured.

YORK, PA.—The York Mfg. Co., of York, informs us that it will erect a new 2-story addition to its plant, 130 × 80 ft., to be built of slow burning material. The power equipment will be furnished by the company.

NATIONAL SOLDIERS' HOME, VA.—The Hendrick Mfg. Co., Carbondale, Pa., has been awarded the contract for building the extension of the Pontifex ice machine plant at the southern branch of the National Home for Disabled Soldiers, at this place, at $4,990.

EAST DURHAM, N. C.—It is reported that the Durham Cotton Mfg. Co., of East Durham, will build an addition, 125 × 250 ft., requiring the installation of 5,400 additional spindles and 160 looms.

CEDARTOWN, GA.—A. F. Walker, 517 Austin Bldg., Atlanta, Ga., informs us that work has just commenced on the construction of the Paragon Mills in Cedartown. This plant will manufacture hosiery yarns, and will have a present equipment of 10,640 spindles.

COVINGTON, GA.—A 3-story addition, 300 × 80 ft., will be erected for the Porterdale Mills at Covington, and with other improvements, including 15,000 spindles, will cost about $150,000. Pres., J. F. Hanson, of Atlanta, Ga.

CROWLEY, LA.—It is reported that a rice mill will be built at this place, consisting of a 4-story building, 40 × 40 ft., and a 2-story warehouse, 100 × 150 ft. Contracts for construction and machinery are said to have been let. Pres., J. D. Crowley.

LOUISVILLE, KY.—The plant of the Globe Refining Co., situated on the outskirts of the city, was entirely destroyed by fire July 3, entailing a loss of $200,000; insurance, about $135,000. Secy., C. J. Hewitt.

PORTSMOUTH, O.—B. F. Vincent, Secy. and Treas., Burgess Steel & Iron Works, of Portsmouth, informs us that nothing definite has yet been done towards the erection of the proposed addition to the company's plant, but that a location will probably be decided upon within 30 days and the erection of the plant be begun.

LAWRENCEBURG, IND.—A fire in this city July 4 destroyed property valued at $100,000, including the Walsh distillery, cattle pens and the Oaster pens.

HAMMOND, IND.—The Western Starch Manufacturers' Association's plant at West Hammond was damaged by fire July 10, causing a reported loss of $250,000.

HOQUIAM, WASH.—Reports state that the F. K. Wood Lumber Co. will soon erect a complete dry kiln, 140 × 104 ft., at this place. H. J. Starr, Supt. of Construction.

MISCELLANEOUS CONTRACTS.

DREDGING.—Petaluma, Cal.—N. S. Frost, Cy. Engr., writes us that he is making surveys for 6,000 lin. ft. of tidal river for dredging.

RETAINING WALL.—Cincinnati, O.—Bids are asked until July 25 for building a retaining wall. A. P. Butterfield, Clk. Bd. City Affairs.

DREDGING.—Lorain, O.—Bids are asked until Aug. 2 for dredging Black River, as stated in our advertising columns. G. A. Resek, Cy. Clk.

DOCK.—Albany, N. Y.—F. A. Harrington, Pier Supt., has been directed to apply to the council for an appropriation to construct from 800 to 1,000 ft. of new dock.

EMBANKMENT, ETC.—Shelton, Wash.—Bids are asked until July 23 for strengthening the banks of Goldsboro Creek; estimated cost, $1,000. W. S. Covill, Town Clk.

PIERS.—Cleveland, O.—Bids are asked until Aug. 5 for constructing pile and timber piers, with stone filling at Erie St. and at Seneca St.; surety, $5,000. Geo. R. Warden, Dir.

IRON FENCE.—Pittsburg, Pa.—Bids are asked until July 18 for furnishing and erecting 400 ft. of iron fence at the Pittsburg City Home, at Marshalsea. Geo. Booth, Dir. Dept. Charities, 511 Fourth Ave.

TELEPHONE LINE.—Portland, Ore.—Reports state that the Columbia Telephone Co. is arranging to construct a line from this city to Washougal, Wash. General Manager Lamont, Portland, may be addressed.

DITCH.—Harvel, Ill.—Bids are asked until July 25 for constructing about 11 miles of drainage ditch. There will be required about 60,000 cu. yds. of earth excavation; bond, $1,000. Fred. Bertman, Chn. Drainage Comrs. of Bug River District.

LIGHTHOUSE SUPPLIES.—Tompkinsville, N. Y.—Bids are asked until July 25 for furnishing miscellaneous articles for the lighthouse establishment for the year ending June 30, 1899, as stated in our advertising columns. Lieut.-Col. D. P. Heap, U. S. Engr.

TELEPHONE WIRES, ETC.—St. Louis, Mo.—The general appropriation bill will include an item for $53,000 to purchase new wires for telephone, etc., to be placed underground, according to reports. Robt. E. McMath, Pres. Bd. Pub. Improvements.

TELEPHONE EXCHANGES.—New Orleans, La.—Reports state that a contract has been awarded to the Detroit Telephone Switchboard & Construction Co., Detroit, for installing a 5,000-telephone exchange. Work will commence by Sept. 1. Manager Ahren may be addressed.

FIRE ENGINES, REPAIRS, ETC.—New York, N. Y.—Bids are asked by the fire department, 157 East 67th St., until July 27, for furnishing three fourth-size steam engines, having La France, New American and Amoskeag pumps and boilers, respectively; also for repairing four fourth-size Clapp & Jones fire engines. John J. Scannell, Fire Comr.

CHANNEL WORK.—Barnstable, Mass.—Frederick N. Wales, Clk., State House, Boston, informs us that the following bids were received July 7 for constructing oak pile jetties and excavating a channel through Dead Neck Beach, advertised in Engineering News June 30: Geo. H. Cavanagh, 166 Devonshire St., Boston, $13,690; Benj. Young, 17 Otis St., Boston, $20,980; R. G. & J. S. Packard, 130 Pearl St., New York, N. Y., $22,115.

SHIP CANAL.—Japan.—Press reports state as follows: Japanese government officials are at present discussing a scheme for constructing a ship canal from Osaka Bay on the Pacific to Isuruga on the Japan Sea, by way of Lake Biwa. Lake Biwa's present surface is 279 ft. above sea level and will supply 46% of the distance to be covered. As the lake is 262 ft. deep it is calculated that it can be lowered 135 ft., thereby producing a large area of dry land on its shores. It is estimated that the work can be completed in 10 to 15 years, at an expense to the government of $7,000,000 to $10,000,000 a year.

FLOATING DOCKS.—Washington, D. C.—Press reports of July 12 state as follows: The navy department is asking for bids for two floating docks, the two to cost not more than $250,000. M. T. Endicott, Chief Bureau of Yards and Docks, has been anxious to get some of these floating structures in order to send them to the Gulf and possibly to Cuba, where cruisers, gunboats and auxiliary craft could be docked in them, obviating the necessity of sending the ships to Northern docks. There are a number of floating docks in view, and it is expected that two of these will be secured under the bids asked July 12, without waiting the long time necessary to build such structures. Two such docks are at New York and three more are in and about New Orleans. An officer of the Bureau is now in New Orleans looking over the docks, in anticipation of their being offered to the government. The choice will be made with little delay. The bids for the floating docks to be built at New Orleans will be called for in about ten days.

CONTRACT PRICES.

STAND-PIPE.—Seattle, Wash.—Frank Olesen, Secy. Bd. Pub. Wks., informs us that the following bids were received June 30 for furnishing the material and for constructing a stand-pipe for the Cedar River water supply; the contract for the foundation has been let to T. Ryan, at $5,340:

Bids Received at Seattle, Wash., June 30, 1898, for Material and Constructing a Stand-pipe.

Quantities.		Moran Bros. Co., Seattle, Wash.	Wolfe & Zwilcke Iron Wks., Portland, Ore.	Nelson & Phelps, 115 Dearborn St., Chicago.	Gillette-Herzog Mfg. Co., Minneapolis, Minn.	Chicago Bridge & Iron Co., Chicago, Ill.	Great Western Boiler Works, Seattle, Wash.
Steel in place	130,000 lbs.	$0.06⅛	$0.04½	$0.05¼	$0.0405	$0.04	$0.05⅝
Special castings	2,000 "	.10⅝	.63	.04½	.05	.03	.04
12-in. cast-iron pipe	2,200 "	.06⅛	.62¼	.04½	.03	.03	.04
12-in. Kalamin pipe	40 lin. ft.	1.53	1.40	4.40	4.00	2.00	1.60
12-in. gate valves	2 each	47 70	42.00	90.00	50.00	42.50	35.00
11x18-in. manhole heads in place	1	17.65	40.00	25.00	35.00	15.00	40.00
12-in. swing gate	1	54.20	79.50	90.00	50.00	65.00	40 00
Asphalt coating	1,400 sq. yds.	.14¾	.10	.25	.15	.05	.02½
Total		$9,020	$6,359	$7,835	$5,986	$5,641	$7,730

GAS PLANTS.

MARCUS HOOK, PA.—Reports state that the Standard Oil Co.'s plant at this place has been burned at a loss of about $70,000.

WASHINGTON, D. C.—Bids are asked by the district commissioners until July 30 for lighting the streets with gas and naphtha, for the year ending June 30, 1899, as stated in our advertising columns.

PIPE SEWERS.—Erie, Pa.—The following contract was let July 1, 1898, to Edward Driscoll for constructing a 15-in. pipe sewer in 11th St.: Straight and curved pipe, $1.45 a ft.; 9-in. pipe, 40 cts. a ft.; 6-in. pipe, 40 cts. a ft.; Y and T branches pipe, $1.90; manholes, $40 each.

BRICK PAVING.—Alton, Ill.—David Ryan has been awarded the contract for paving Front St., from Market to Alby, and Market St., from 2d to 3d st, with Alton brick at 95 cts. a sq. yd.

LEVEE WORK.—Memphis, Tenn.—The following bids were received July 6 by Capt. H. C. Newcomer, U. S. Engr., for levee construction in the Lower Yazoo District:

Bids Received at Memphis, Tenn., July 6, 1898, for Levee Work.—Lower Yazoo Levee District, Below Greenville.

Bidder.	Stations, 200 to 300, 483 L., 69,000 cu.yds. cts.	300 to 400, 485 L., 54,000 cu.yds. cts.	400 to 500, 487 L., 60,000 cu.yds. cts.	500 to 600, 489 L., 62,000 cu.yds. cts.	600 to 700, 491 L., 64,000 cu.yds. cts.	700 to 790, 492 L., 77,000 cu.yds. cts.	811 to 900, 492 L., 108,000 cu.yds. cts.	900 to 1000, 493 L., 100,000 cu.yds. cts.	1000 to 1100, 494 L., 99,000 cu.yds. cts.	1100 to 1200, 495 L., 84,000 cu.yds. cts.
J. H. Cary, Memphis, Tenn.	11	13	13	10.45	15	20	26	14	12	11
John Scott & Sons, St. Louis, Mo.	11	14	..	14.5	..	19.45	24.45	14.24	14.99	14.5
L. C. Dresbach & Bro., Memphis	12.75	..	..	11.74	..	..	..	..	..	14.75
J. E. Moore, Memphis, Tenn.	..	11.38	..	..	14.45	..	..	16.45	..	..
Shippey & Kilpatrick, Memphis	14	14	14	14	..	..	29	..	..	..
J. & A. Wynn, Wilczinski, Miss.	9	..	22.5	11	..	..	..	13.63	12.38	10.90
†T. Mike, Greenville, Miss.	9.20	13	13.5	*8.74	18	..	..	..	12	*9.5
Hugh Morgan, Memphis, Tenn.	12.5	12.5	..	12.5	..	..	..	..	..	..
Green Clay, Mexico, Mo.	12.75	10.80	13.90	14	14.87	15	32	23	13.88	13.24
‖Aderholdt&Lowrance, FriarsPt, Miss	13	15.5	13.75	13.5	20.75	20.75	24.75	16	15.75	13.75
C. A. Winter, Greenville, Miss.	..	..	..	..	*13.88	*13.38	24.88	17.74	14.13	10.75
W. M. Bates, Arkansas City, Ark.	11	12	13.5	12	15	14	23.75	17	15	12
Robert Johnsen, Memphis, Tenn.	14.25	14	14.5	13.5	14.25	25	24.90	17	14	12.5
§H. F. Watkins, Australia, Miss.	10	10.95	12	10.23	14.99	14.99	27	13.49	15	10.95
‡John G. Sessions, Greenville, Miss.	10.5	*10.5	..	10.5	14.90	14.5	..	..	..	..
L. C. Dulaney, Duncansby, Miss.	11.98	17	21	14	14	18	28	26	20	18
McCadden & Roach, Memphis, Tenn.	12.50	12.5	22.50	14.50	17.50	22.50	30	18.95	14.15	12.25
Bush Bros., Artonish, Miss.	14	16.5	18	12.5	15	25	25	22.5	20	14
P. H. Rogers, Stovall, Miss.	12	..	14	13	..	..	..	..	..	..
†Thomas & Co., Memphis, Tenn.	13.99	13.99	13.99	13.99	13.99	..	..	..	..	..
[2]Ernest Hyner, Greenville, Miss.	13	11	13	11.50	25	20	21	16	14	11
[3]J. E. Kerr, Paxton, Ill.	16.60	18.90	19.50	16.80	22.9	23	50	20	18.10	14.30
Martin Jennings & Co., Memphis	13.5	14.75	14.75	12.75	16	16.5	24.75	14.63	12.38	11.88
Gilchrist & Crow, Greenville, Miss.	11.90	16	..	11	..	..	..	15	15.25	12.5
Thompson & Powell, Memphis, Tenn	10.90	13.24	..	13.75	..	..	..	..	15	12.98
J. H. McTighe, Memphis, Tenn.	..	12.5	*12.5	11	..	..	..	..	..	14.40
[4]J. B. Lewis, Memphis, Tenn.	11.75	12.4	13.4	11.75	14.9	15.75	24.75	*13.25	*11.9	11.40
[5]N. I. McLeod, Memphis, Tenn.	12.23	12.97	..	11.73	..	..	..	..	..	10.70
[6]Batt O'Brien, Morville, La.	14	..	..	..	..	..	..	..	14	14
[7]John C. McIntyre, Memphis, Tenn.	11.38	12.5	13.25	13.75	17.38	16.38	*16.63	14.38	13.38	11.38
[8]Helgason Bros., L'Argent, La.	14	..	..	..	..	..	..	..	14	14
[9]Morrow & Carter, Memphis, Tenn.	12	12	12	14	14	..	..	..	16	13.45
Ben Talley, Memphis, Tenn.	11	11	11	10.75	..	..	..	..	14	10.25

*Accepted. †1 ct. for each 100 ft. or fraction over 300 ft. haul. ‖Limit 500,000 cu. yds. §5 cts. extra for material hauled over levee. ‡Limit, 300,000 cu. yds. [1]All or none—limit 325,000 cu. yds. [2]From 600 to 700 at 11 cts. if material from land side and enlargement on land side. [3]Limit, 300,000 cu. yds. 1100 to 1300, both or neither. [4]Limit, 250,000 cu. yds. [5]Limit 200,000 cu. yds. [6]Limit 150,000 cu. yds. [7]4 cts. extra for material hauled over levee. [8]Limit 225,000 cu. yds. [9]From 200 to 700, all or none.

DREDGING.—Philadelphia, Pa.—Lieut.-Col. C. W. Raymond, U. S. Engr., Philadelphia, informs us that the following bids were received July 5, 1898, for dredging in Delaware River, as advertised in Engineering News: River & Harbor Improvement Co.'s bid was recommended for acceptance:

Bidder.	1,050,000 cu. yds.	
P. Sanford Ross, Jersey City, N. J.	$0.09⅝	$100,800
Atlas Dredging Co., Wilmington, Del.	.10	105,000
American Dredging Co., Phila., Pa.	.07⅜	77,700
International Contracting Co., Syracuse	.11⅞	123,375
River & Harbor Imp. Co., Camden, N.J.	.06⅞	72,188
Baltimore Dredging Co., Baltimore, Md.	.10	105,000
Morris & Cumings Dredg. Co., N. Y.	.09	94,500
Virginia Dredg. Co., Richmond, Va.	.0849	89,145
Frank H. Brainard, New York, N. Y.	.09½	99,750

BRICK PAVING.—Des Moines, Ia.—The following bids were received July 2, 1898, for brick paving and grading 10th St., from Center to School St.: Two-course brick with sand filter, Capital City B. & P. Co., $1.14 a sq. yd.; J. W. Campbell, $1.14⅞; Likes Improvement Co., $1.14; Smith, Moss & Brown, $1.24; Magden, Sheely, Herrick & Co., $1.17⅞. Concrete base, brick paving, grout filler, Cottage Grove Ave., from 19th to 28th St, and Crocker, from 17th to 19th St.: Capital City B. & P. Co., $1.459; J. W. Campbell, $1.449; Smith, Moss & Brown, $1.46; Magden, Sheeley, Herrick & Co., $1.40⅞. Curbing, 8th St., from Forest to College Ave., T. O'Brien & Co., 33½ cts. a lin. ft.; Magden & Sheeley, 31.3 cts.; Mills St., from 19th to 20th St., O'Brien & Co., 34¾ cts.; Magden & Sheeley, 34.3 cts..

GRANITE.—Brooklyn, N. Y.—The dock board has let a contract to A. C. Gildersleeve for furnishing 8,600 cu. ft. of granite; cut to exact dimensions, for use on piers now building, at 94.6 cts. a ft.

LEVEE WORK.—Memphis, Tenn.—C. B. Duke, Ch. Clk., in the absence of Capt. H. C. Newcomer, U. S. Engr., Equitable Bldg., has sent us the following table of bids received July 6 for levee construction on the Lower Yazoo District:

Bids Received at Memphis, Tenn., July 6, 1898, for Levee Work.—Lower Yazoo Levee District, Below Greenville.

Bidder.	Stations, 1200 to 1300, 497 L., 75,000 cu.yds. cts.	1300 to 1400, 499 L., 89,000 cu.yds. cts.	1400 to 1500, 500 L., 124,000 cu.yds. cts.	1500 to 1600, 502 L., 91,000 cu.yds. cts.	1600 to 1700, 503 L., 75,000 cu.yds. cts.	1700 to 1800, 504 L., 58,000 cu.yds. cts.	1800 to 1900, 505 L., 71,000 cu.yds. cts.	1900 to 2000, 512 L., 50,000 cu.yds. cts.	2000 to 2060, 513 L., 100,000 cu.yds. cts.	2060 to 2100, 514 L., 100,000 cu.yds. cts.
†J. H. Cary, Memphis, Tenn.	18.50	18.50	18.50	18.50	18.50	..	..	..	..	..
John Scott & Sons, St. Louis, Mo.	17	18.45	22	32	..	..	..	..	10.23	10.23
L. C. Dresbach & Bro., Memphis	..	..	..	..	..	16.67	..	..	10.9	11.5
Shippey & Kilpatrick, Memphis	..	..	33	..	..	..	..	..	..	..
J. & A. Wynn, Wilczinski, Miss.	12.75	16	12.88	..	..	14	*10	10.1	8.85	9.5
M. McTighe, Memphis, Tenn.	13.25	17	18	28	..	..	14	13.5	12.15	12
T. Mike, Greenville, Miss.	*9.99	..	..	..	..	..	..	..	11	..
Green Clay, Mexico, Mo.	13.40	14.75	19	20	..	..	13.65	12.95	12.50	13
Bryan & King, Rex, Miss.	..	..	..	..	..	13.75	12.50	13	..	..
Aderholdt&Lowrance, FriarsPt, Miss.	13.75	24.5	27.5	21	23	16.50	17	15	12	12.75
C. A. Winter, Greenville, Miss.	11.13	16.97	23.97	21	19.94	..	..	..	..	..
W. M. Bates, Arkansas City, Ark.	12	25	27	25	22	14	12.50	13	12	12.5
Robert Johnsen, Memphis, Tenn	12	*14	24.90	24.90	..	..	14	13.5	11	11
H. F. Watkins, Australia, Miss.	11.99	29	30	27.25	27.25	*11.48	11.74	14.49	10.98	11.98
John A. Cannon, Greenville, Miss.	14	..	..	..	..	13.88	14.88	21.88	12.38	13.5
John G. Sessions, Greenville, Miss.	12.43	23.90	29.72	..	..	19.90	11.93	..	10.90	11.42
W.J. Bentley & Co., New Orleans, La.	..	..	..	..	..	..	..	..	22.45	22.45
L. C. Dulaney, Duncansby, Miss.	16	28	30	22	40	36	18	18	12.25	12.25
McCadden & Roach, Memphis, Tenn.	12.95	27.50	22.45	27.50	30	17.50	13.50	13.75	11	11
Bush Bros., Artonish, Miss.	14	25	28	30	30	16.5	15	15	11	11
C. T. Worthington, Leota, Miss.	..	..	..	..	..	..	..	14.75	9.88	..
‖Thomas & Co., Memphis, Tenn.	..	..	..	..	..	..	11.99	11.99	11.99	11.99
Ernest Hyner, Greenville, Miss.	11.75	25	29	28	29	14.94	12	12	..	..
§J. E. Kerr, Paxton, Ill.	16.90	45	50	50	..	..	21.80	20	13.60	13.80
M. Jennings & Co., Memphis, Tenn.	13.63	21.75	22.38	17.63	19.38	14.38	14.88	11.88	11.38	11.38
Gilchrist & Crow, Greenville, Miss.	14	..	..	..	..	15	13	16	10	10.5
J. H. McTighe, Memphis, Tenn.	15.5	..	34	..	..	..	..	..	12.40	12.40
J. B. Lewis, Memphis, Tenn.	12.90	19.70	23.70	17.70	16.70	12.50	12.90	13.90	10.70	11.70
N. I. McLeod, Memphis, Tenn.	11.77	..	..	..	..	..	..	..	10.23	10.73
Batt. O'Brien, Morville, La.	13.5	19.74	..	..	..	..	..	14.5	11	11.5
John C. McIntyre, Memphis, Tenn.	11.25	24.63	25.38	*15.38	16.63	14.38	13.38	13.38	10.38	10.63
Helgason Bros., L'Argent, La.	13	18	..	..	..	..	..	13.75	10.75	10.90
Morrow & Carter, Memphis, Tenn.	17	26.90	27	22	..	..	..	..	13.50	13.90
‡Ben Talley, Memphis, Tenn.	12	23.5	23.5	..	*14	13	13.5	..	10	10

*Accepted. †1200 to 17, all or none. ‖1800 to 2100, all or none. §1100 to 1300, both or neither. ‡1300 to 1500, both or neither.

TELFORD-MACADAM PAVING.—Quincy, Ill.—Local papers state that the following bids were received June 24, 1898, for paving 17 blocks of the Boulevard, from Broadway to Harrison St., with telford-macadam: Fred Kordsiemon, grading, 14 cts. a cu. yd.; telford paving, 37½ cts. a sq. yd.; Ebert & Shannahan, grading 15 cts. a cu. yd.; telford paving, 44 cts. a sq. yd.; Zengle Bros., grading, 20 cts. a cu. yd.; telford paving, 45 cts. a sq. yd. The lowest bid aggregated $6,612 for a roadway 16 ft. wide for the 17 blocks, and $5,881 for a 14-ft. roadway. The Park and Boulevard Association has $4,360 for the work—$1,000 appropriated by the city, $1,000 by the county, $300 by Melrose, and the balance contributed by private subscriptions.

Bids Received at Memphis, Tenn., July 6, 1898, for Levee Work on the Upper Tensas Levee.

Bidder.	Upper Tensas Levee District, in Arkansas. Sta. 1780 to 1810, 466 R., 20,000 cu. yds.	Sta. 1942 to 2047, 468 R., 67,000 cu. yds.	Sta. 3400 to 3500, 505 R., 106,000 cu. yds.	Sta. 3500 to 3600, 506 R., 104,000 cu. yds.	Sta. 3600 to 3700, 508 R., 94,000 cu. yds.	Upper Tensas, in Louisiana. Sta. 2411 to 2500, 562 R., 120,000 cu. yds.	Sta. 2810 to 2931, 574 R., 100,000 cu. yds.	Sta. 2931 to 3031, 576 R., 100,000 cu. yds.
John Scott & Sons, St. Louis, Mo.	..	..	..	..	..	18	18	21
J. E. Moore, Memphis, Tenn.	13.38	16.63	..	..	..	..	..	..
F. L. Maxwell, Mound, La.	..	..	..	..	..	21.9	14	20.60
M. McTighe, Memphis, Tenn.	..	..	..	19	20	16	12	19
L. Aschaffenburg, Henderson, La.	..	..	..	..	..	*15.74	13.74	23.74
C. A. Winter, Greenville, Miss.	..	..	*13.63	*15	..	..	..	..
C. A. Lacy, Arkansas City, Ark.	12.5	18.99	..	..	..	..	..	..
W. M. Bates, Arkansas City, Ark.	15.94	20	13.98	17.5	17,5	19	12	33.34
Robert Johnsen, Memphis, Tenn.	*11.99	..	..	..	..	22.50	..	..
John A. Cannon Greenville, Miss.	..	..	22.88	22.88	22.88	..	..	..
John G. Sessions, Greenville, Miss.	..	..	..	..	..	..	16.40	..
W. J. Bentley & Co., New Orleans, La.	..	..	21.75	21.75	21.75	19.75	18.60	*18.60
McCadden & Roach, Memphis, Tenn.	..	*14.95	17.25	27.50	30	..	..	..
†Thomas & Co., Memphis, Tenn.	..	..	17.99	17.99	17.99	..	..	..
M. Jennings & Co., Memphis, Tenn.	..	22.38	17.63	..	..	..	13.63	21.38
‡W. R. Lewis & Co., Rex, Miss.	..	..	14.40	14.40	..	..	..	..
J. H. McTighe, Memphis, Tenn.	..	..	..	..	..	..	*9.99	..
J. B. Lewis, Memphis, Tenn.	16	21	15.20	21.70	24.70	..	14	19
Robert Nicholson, Villa Vista, La.	..	..	..	..	..	16.21	..	28
Batt O'Brien, Morville, La.	..	..	16	..	..	17.74	17.5	24
Helgason Bros., L'Argent, La.	..	..	..	..	..	17.5	14.90	19.90
Ben Talley, Memphis, Tenn.	..	..	15	15	*15	..	..	..

*Accepted. †3400 to 3700, all or none. ‡Both or neither.

GUN CARRIAGES.—Washington, D. C.—It is stated that the following bids were received June 3, 1898, by the chief of ordnance for furnishing 18 12-in. and 6 8-in. disappearing gun carriages: 8-in.—Builders' Iron Foundry, Providence, R. I., 6 carriages, $11,515 each; first in 6 months and one a month thereafter. Walker Co., Cleveland, O., 6 carriages, $10,000 each; first in 120 days, and one every 20 days thereafter. Weimer Machine Works Co., Lebanon, Pa., 4 carriages, $11,750 each; 6 carriages, $11,400 each; first in 6 months and for each additional carriage add 7 weeks. Dixon Mfg. Co., Scranton, Pa., 6 carriages, $12,750 each; first in 6 months, and one every 6 weeks. Morgan Engineering Co., Alliance, O., 6 carriages, $9,985 each; first in 5 months, and one every 30 days. Frazier & Chalmers, Chicago, Ill., 1 carriage, $14,265; 2, $12,850; 6, $11,500; first in 100 days, and one every 20 days. Pond Machine Tool Co., Plainfield, N. J., 6 carriages, $12,500 each, first on Oct. 1, 1898, and one every 3 weeks; or $12,000 each, first on Nov. 1, and one a month. Lake Erie Engineering Works, Buffalo, N. Y., 1 carriage, $11,500; 2, $11,250; 6, $10,650; first in 7 months, second in 9 months, third in 10 months, fourth in 12 months, and one per month thereafter.

12-in.—Lake Erie Engineering Works, 19 carriages, as follows: 3 to 5, $33,500; 6 to 10, $33,250; 11 to 15, $33,000; 16 to 19, $32,750; first in 5 months, second in 7 months, third in 9 months, fourth in 10½ months, fifth in 12 months, and one a month thereafter. Morgan Engineering Co., 5 carriages, $32,250 each; first in 6 months and one every 6 weeks until three are delivered, then one every 30 days. Wm. Cramp & Sons Ship & Engine Building Co., Philadelphia, 5 carriages, $33,950 each; first in 6 months and one every 2 months. Robert Poole & Sons Co., Baltimore, 5 carriages, $32,250 each; first in 6 months and one every 1½ months thereafter. Bethlehem Iron Co., South Bethlehem, Pa., 5 or more carriages, $32,250 each; first in 6 months, second and third in 9 months, and one a month. Builders' Iron Foundry, 5 carriages, $39,500 each; first in 8 months, and one every 10 weeks. Weimer Machine Works Co., 3 carriages, $35,500 each; 6, $35,000; more than 6, $34,350 each; first carriage in 7 months, and one every 9 weeks thereafter.

ASPHALT PAVING.—Atlanta, Ga.—J. D. Turner writes us that the Warren-Scharf Asphalt Paving Co., 1 Broadway, New York, was awarded the contract July 5, 1898, for paving Washington St., from Hunter St. to Woodward Ave., at $2.08 a sq. yd.; total, $17,082.

LEVEE WORK.—Memphis, Tenn.—We are informed that the following bids were received July 6 for levee construction in Arkansas; Capt. H. C. Newcomer, U. S. Engr., C. B. Duke, Ch. Clk., Equitable Bldg.:

INDUSTRIAL NOTES.

THE MARION STEAM SHOVEL CO., Marion, O., writes us that business has been very good, and that it has been very busy all the season.

THE THOMSON METER CO., Brooklyn, New York, sold from Jan. 1, 1898, to July 1, 1898, 11,496 meters, which was 2,595 more than it sold in the first six months of 1897. So far 116,678 meters in all have been sold.

G. M. BURKHALTER & CO., 708 South 23d St., Birmingham, Ala., has just received a $25,000-contract for paving streets at Meridian, Miss. The company is now constructing about two miles of sewers in the same city.

THE WEBER GAS & GASOLINE ENGINE CO., Kansas City, Mo., is reported to have received a contract from the British government for six cable hoisting machines to be used in British Guinea for raising telegraph cables. The machines will have a raising capacity of eight tons elevated 40 ft. a minute, and will cost about $20,000.

THE BETHLEHEM IRON CO., South Bethlehem, Pa., was the builder of the crank, line, thrust and propeller shafts and all other hollow forgings of the U. S. battleship "Oregon," whose performance in steaming from San Francisco, Cal., to Key West, Fla., without a break in her machinery, and reporting immediately upon her arrival for active service, has already been noted in this paper. To have been able to make this record, it was absolutely essential that all parts of the machinery should be of the best, thus showing, it is claimed, the durability of hollow forgings over solid forgings for such purposes. We are informed that all the above-named shafts had a 6-in. hole running through them.

A. B. BOWERS, San Francisco, Cal., has been granted an injunction by the United States Circuit Court of the Southern District of New York, restraining the New York Dredging Co. from infringement of the Bowers patents on hydraulic dredges, but allowing the completion of the latter's contract at League Island, Cal., and also the work at Port Arthur, Tex., on filing bonds for profits and damages. Those interested in the legal aspects of the Bowers hydraulic dredge patents litigation, will find decisions in his cases in 63 Fed. Rep., p. 572; 69 Fed. Rep., p. 640; 77 Fed. Rep., p. 980; 80 Fed. Rep., p. 421; 25 U. S. A., p. 323; 48 U. S. A., p. 120; 80 Fed. Rep., p. 119; 106 U. S. A., p. 720; 81 Fed. Rep., p. 569; 83 Fed. Rep., p. 944. There are some other decisions not yet published.

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